

Mr. James Saric
Remedial Project Manager
USEPA Region 5
77 West Jackson Boulevard (SR-6J)
Chicago, IL 60604-3507

ARCADIS
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810.229.8594
Fax 810.229.8837
www.arcadis-us.com

Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (April 2010)

SEDIMENTS

Dear Jim:

Attached is the 38th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS) – Area 1. This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Date:
May 14, 2010

Sincerely,

Contact:
Michael J. Erickson, P.E.

ARCADIS U.S., Inc.

Phone:
810.225.1924



Email:
michael.erickson@arcadis-us.com

Michael J. Erickson, P.E.
Vice President

Our ref:
B0064539.0001.00014
#2

MJE/plf
Attachment

Copies:
Michael Berkoff, USEPA
Sam Chummar, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDNRE (with Attachment A)
Jeff Keiser, CH2M HILL (with Attachment A)
Todd Goeks, NOAA (with Attachment A)
Richard Gay, Weyerhaeuser Company
Martin Lebo, Weyerhaeuser Company
Kathy Huibregtse, RMT Inc. (with Attachment A)
J. Michael Davis, Esq., Georgia-Pacific LLC
Garry Griffith, P.E., Georgia-Pacific LLC
Paul Montney, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)**

REPORT #38, APRIL 2010

**PREPARED BY ARCADIS U.S., INC.
MAY 14, 2010**

ON BEHALF OF GEORGIA-PACIFIC LLC (GEORGIA-PACIFIC)

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #38, APRIL 2010

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On April 6, ARCADIS U.S., Inc. (ARCADIS) submitted the Response to USEPA and Michigan Department of Natural Resources and Environment (MDNRE) Comments on the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.
- On April 12, ARCADIS submitted to USEPA the revised draft *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.
- On April 13, ARCADIS forwarded to USEPA the final *Multi-Area FS Technical Memorandum – Evaluation of Candidate Technologies and Testing Needs* (Section 4.1 of SOW) and the final *Multi-Area FS Technical Memorandum - Preliminary Remedial Technology Screening* (Section 1.2.2.1 of SOW).
- On April 13 and 14, ARCADIS initiated the first meeting of the work group that has been charged with developing toxicity reference values (TRVs) for the Area 1 Baseline Ecological Risk Assessment.
- On April 21, ARCADIS forwarded TRV references to USEPA, United States Fish and Wildlife Service, and CDM.
- Georgia-Pacific awaits USEPA's comments on the revised draft *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.

Data Collected and Field Activities Conducted during the Period

- During the week of April 5, ARCADIS sampled 15 wells and collected two surface water samples from the river in the former Plainwell Impoundment Time Critical Removal Action (TCRA) Area. Table A summarizes the samples collected.

Laboratory Data Received during the Period

- On April 1, ARCADIS received from TestAmerica Laboratories, Inc. (TestAmerica) the remainder of the PCB analytical results for the additional segmented sediment cores from the hot spot assessment (Sample Delivery Group (SDG) KAL538 and a portion of KAL540) (Table B).
- On April 1 and 5, ARCADIS received from TestAmerica the remainder of the PCB analytical results for the Crown Vantage landfill work (SDG portion of KAL540, KAL542, and KAL543) (Table C).

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #38, APRIL 2010

- Validated data for the laboratory SDGs received in February are included in this monthly report. These data include a portion of the PCB analytical results for the Crown Vantage investigation sediment samples (SDGs KAL502 and KAL504) (Table D), the remainder of the PCB analytical results for the off-channel areas investigation sediment samples collected in December 2009 (SDGs KAL508 and KAL509) (Table E), the PCB analytical results for the off-channel areas investigation sediment samples collected in January 2010 (SDGs KAL510, KAL511, KAL514, KAL517, KAL521, and KAL522) (Table F), and a portion of the PCB analytical results for the filleted fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forwarded to the lab in January 2010 (KAL513) (Table G). In accordance with Section 2.1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed compact disk also contains the electronic data deliverable for these data.

Problems

- None.

Actions Taken to Correct Problems

- None.

Developments Anticipated during the Next Two Reporting Periods

- Validated data for the laboratory SDGs received in March will be included in the May monthly report. These data include the remaining PCB analytical results for the Crown Vantage investigation sediment samples from the initial round of sampling (SDG KAL503), a portion of the PCB analytical results for the filleted fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forwarded to the lab in January 2010 (SDGs KAL512, KAL515, KAL516, KAL519, KAL520, and KAL523 through KAL531), and a portion of the PCB analytical results for the additional segmented sediment cores from the hot spot assessment and Crown Vantage landfill work (SDG KAL541).
- In May, ARCADIS is scheduled to perform the annual bathymetric monitoring in the former Plainwell Impoundment TCRA Area as described in Section 3.4.5 of the Area 1 SRI/FS Work Plan.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #38, April 2010

Table A — Plainwell TCRA Area — Groundwater and Surface Water Samples Collected in April 2010

Date Sampled	ARCADIS Sample ID	Location ID	CDM Split ID
4/5/10	TS40068 ¹	MW-15	PGW-MW15-01
	TS30012 [TS30013]	SG-5	N/A
4/6/10	TS40071	MW-10	N/A
	TS40072	MW-11	PGW-MW11-01 [PGW-MW11-02]
	TS40073 [TS40074]	MW-14	PGW-MW14-01 [PGW-MW14-03]
	TS40075	MW-12	N/A
4/7/10	TS40076	MW-13	PGW-MW13-01
	TS40077	MW-5	PGW-MW5-01 ¹
	TS40078	MW-4	PGW-MW4-01
	TS40079	MW-9	PGW-MW9-01
4/8/10	TS40080	MW-8	PGW-MW8-01
	TS40081	MW-3	N/A
	TS40082	MW-7	PGW-MW7-01
	TS40083 [TS40084]	MW-2	PGW-MW2-01
	TS40085	MW-6	N/A
4/9/10	TS40087	MW-1	N/A
	TS30014 ¹	SG-5	N/A

Notes:

All samples collected by ARCADIS were sent to TestAmerica Laboratories, Inc. for the following analyses: PCBs, total organic carbon, total dissolved solids, total suspended solids, chloride, sulfate and alkalinity, and total metals (i.e., sodium, calcium, potassium, magnesium).

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

N/A - not applicable, split sample not collected.

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table B — Hot Spot Assessment — Sample Data Received in April 2010

Location	Sample ID	Interval (inches)	SDG	Date SDG Received from Lab
KRT5-G	K56958	0 - 2	KAL540	4/1/10
	K56959	2 - 6	KAL540	4/1/10
	K56960	6 - 12	KAL540	4/1/10
	K56961	12 - 16	KAL540	4/1/10
KRT5-H	K56953	0 - 2	KAL540	4/1/10
	K56954	2 - 4	KAL540	4/1/10
	K56955	4 - 6	KAL540	4/1/10
	K56956	6 - 11	KAL540	4/1/10
	K56957	11 - 14	KAL540	4/1/10
KPT19-A	K56931	0 - 2	KAL538	4/1/10
	K56932	2 - 6	KAL538	4/1/10
	K56933	6 - 12	KAL538	4/1/10
	K56934	12 - 18	KAL538	4/1/10
	K56935	18 - 22	KAL538	4/1/10
	K56936	22 - 24	KAL538	4/1/10
	K56937	24 - 33	KAL538	4/1/10
KPT19-I	K56938	0 - 2	KAL538	4/1/10
	K56939	2 - 6	KAL538	4/1/10
	K56940	6 - 12	KAL538	4/1/10
	K56941	12 - 15	KAL538	4/1/10
	K56942	15 - 24	KAL538	4/1/10
	K56943	24 - 26	KAL538	4/1/10
	K56944	26 - 29	KAL538	4/1/10
	K56945	29 - 31	KAL538	4/1/10
KPT19-J	K56946	0 - 2	KAL538	4/1/10
	K56947	2 - 6	KAL538	4/1/10
	K56948	6 - 12	KAL538	4/1/10
	K56949 ¹	12 - 24	KAL538	4/1/10
	K56950 [K56952]	24 - 32	KAL538 [KAL540]	4/1/10 [4/1/10]
	K56951	32 - 38	KAL540	4/1/10
S-IM1-1	K56962	0 - 2	KAL540	4/1/10
	K56963	2 - 6	KAL540	4/1/10
	K56964	6 - 12	KAL540	4/1/10
	K56965	12 - 14	KAL540	4/1/10
	K56966	14 - 16	KAL540	4/1/10
	K56967	16 - 19	KAL540	4/1/10
	K56968	19 - 22	KAL540	4/1/10
S-IM1-2	K56969	0 - 2	KAL540	4/1/10

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

SDG - Sample delivery group.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

Georgia-Pacific LLC
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Table C — Crown Vantage Landfill Area — Status of Sediment Samples Processed in March 2010

Location	Sample ID	Interval (inches)	SDG	Date SDG Received from Lab
CVT-A-1	K57015	0 - 2	KAL543	4/5/10
	K57016	2 - 6	KAL543	4/5/10
	K57017	6 - 12	KAL543	4/5/10
	K57018	12 - 20	KAL543	4/5/10
CVT-A-2	K57019	0 - 2	KAL543	4/5/10
	K57020	2 - 6	KAL543	4/5/10
	K57021	6 - 12	KAL543	4/5/10
	K57022	12 - 15	KAL543	4/5/10
CVT-B-3	K57012	0 - 2	KAL543	4/5/10
	K57013	2 - 6	KAL543	4/5/10
	K57014	6 - 11	KAL543	4/5/10
CVT-C-3	K57007	0 - 2	KAL542	4/1/10
	K57008	2 - 4	KAL542	4/1/10
	K57009	4 - 6	KAL542	4/1/10
	K57010	6 - 12	KAL542	4/1/10
	K57011	12 - 18	KAL542	4/1/10
CVT-E-2	K57000	0 - 2	KAL542	4/1/10
	K57001	2 - 6	KAL542	4/1/10
	K57002	6 - 12	KAL542	4/1/10
	K57003 [K57006]	12 - 24	KAL542 [KAL542]	4/1/10 [4/1/10]
	K57004 ¹	24 - 36	KAL543	4/5/10
	K57005	36 - 39	KAL542	4/1/10
CVT-E-3	K56994	0 - 2	KAL542	4/1/10
	K56995	2 - 6	KAL542	4/1/10
	K56996	6 - 12	KAL542	4/1/10
	K56997 [K56999]	12 - 24	KAL542 [KAL542]	4/1/10 [4/1/10]
	K56998 ¹	24 - 32	KAL542	4/1/10
CVT-F-3	K56991	0 - 2	KAL542	4/1/10
	K56992	2 - 6	KAL542	4/1/10
	K56993	6 - 13	KAL542	4/1/10
CVT-I-2	K56984 ¹	24 - 29	KAL540	4/1/10

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

SDG - Sample delivery group.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #38, April 2010

Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56703 18 - 29 12/02/09 CVT-H-2	K56706 2 - 6 12/02/09 CVT-08-01	K56707 6 - 11 12/02/09 CVT-08-01	K56708 11 - 15 12/02/09 CVT-08-01	K56709 15 - 21 12/02/09 CVT-08-01	K56710 0 - 2 12/02/09 CVT-08-01	K56711 2 - 6 12/02/09 CVT-08-03	K56712 6 - 12 12/02/09 CVT-08-03	K56713 12 - 18 12/02/09 CVT-08-03	K56714 18 - 24 12/02/09 CVT-08-03	K56715 24 - 27 12/02/09 CVT-08-03	
PCB Aroclors													
Aroclor-1016	mg/kg	0.062 U	0.16 U	0.40 U	0.055 U	0.12 UJ	0.20 U	0.34 U	2.5 U	1.4 U	0.062 U	0.071 U	
Aroclor-1221	mg/kg	0.062 U	0.16 U	0.40 U	0.055 U	0.12 UJ	0.20 U	0.34 U	2.5 U	1.4 U	0.17	0.071 U	
Aroclor-1232	mg/kg	0.062 U	0.16 U	0.40 U	0.055 U	0.12 UJ	0.20 U	0.34 U	2.5 U	1.4 U	0.062 U	0.071 U	
Aroclor-1242	mg/kg	0.062 U	1.3	1.5	0.51	1.1 J	1.3	2.9	12	12	0.21	0.071 U	
Aroclor-1248	mg/kg	0.062 U	0.26	1.2	0.17	0.14 J	0.25	0.66	15	1.4 U	0.091	0.071 U	
Aroclor-1254	mg/kg	0.062 U	1.1	0.92	0.055 U	0.20 J	0.43	0.70	7.0	6.6	0.062 U	0.071 U	
Aroclor-1260	mg/kg	0.062 U	0.17	0.40 U	0.055 U	0.12 UJ	0.20 U	0.34 U	2.0 J	1.4 U	0.062 U	0.071 U	
Total PCBs	mg/kg	0.062 U	2.8	3.6	0.68	1.4 J	2.0	4.3	36 J	19	0.47	0.071 U	
Miscellaneous													
Percent Solids	%	77.9	61.9	62.3	91.3	82.6	46.6	76.2	58.3	69.2	80.2	71.8	
TOC													
Total Organic Carbon	mg/kg	4,870 J	39,400 J	47,900	8,060	17,700	97,300	20,900	83,600 J	76,200	23,400	25,400 J	
Grain Size Analysis													
Gravel	%	0.6	0.3	4.1	28	45.3	2.5	7.1	1	3.1	25.2	47.9	
Coarse Sand	%	2.8	1.6	6.5	30.4	17	4.9	8.3	3.4	9.4	27.1	9.3	
Medium Sand	%	14.7	10.4	30.8	30.6	15.8	26.4	54.5	31.5	27.2	23.5	27.8	
Fine Sand	%	78.8	78.3	49.8	7.6	18.6	43.2	26.2	51.4	53.8	23.2	10.3	
Silt	%	2.3	6.3	5.1	3.9	2.2	19.2	3.2	8.7	4.5	0.7	4.7	
Clay	%	0.8	3.1	3.6	-0.5	1.2	3.8	0.7	4	2	0.2	0.1	
Grain Size Analysis - % passing (particle size, um)													
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	92.4 (19000)	82.7 (19000)	100 (19000)	97.1 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	74.7 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	98.8 (9500)	92.4 (9500)	66.9 (9500)	98.8 (9500)	96.1 (9500)	100 (9500)	98.3 (9500)	87.7 (9500)	63.2 (9500)	
Sieve, #4	% passing (um)	99.4 (4750)	99.7 (4750)	95.9 (4750)	72 (4750)	54.7 (4750)	97.5 (4750)	92.9 (4750)	99 (4750)	96.9 (4750)	74.8 (4750)	52.1 (4750)	
Sieve, #10	% passing (um)	96.6 (2000)	98.1 (2000)	89.4 (2000)	41.6 (2000)	37.7 (2000)	92.6 (2000)	84.5 (2000)	95.6 (2000)	87.5 (2000)	47.8 (2000)	42.8 (2000)	
Sieve, #20	% passing (um)	94.2 (850)	94.9 (850)	73.9 (850)	20.9 (850)	29 (850)	81.8 (850)	57.8 (850)	79.9 (850)	73.5 (850)	34.1 (850)	23.4 (850)	
Sieve, #40	% passing (um)	81.9 (425)	87.7 (425)	58.6 (425)	11 (425)	21.9 (425)	66.2 (425)	30 (425)	64.1 (425)	60.3 (425)	24.2 (425)	15.1 (425)	
Sieve, #60	% passing (um)	47.9 (250)	73 (250)	46.5 (250)	5.8 (250)	12.8 (250)	50.9 (250)	13.2 (250)	41.6 (250)	35.5 (250)	12 (250)	11.3 (250)	
Sieve, #80	% passing (um)	21.7 (180)	45.1 (180)	33.7 (180)	4.5 (180)	7.9 (180)	41.6 (180)	8 (180)	24.7 (180)	19.9 (180)	5.6 (180)	7.8 (180)	
Sieve, #100	% passing (um)	12 (150)	28.7 (150)	24.7 (150)	4.2 (150)	6.3 (150)	37.6 (150)	6.5 (150)	19 (150)	14.4 (150)	3.7 (150)	7.1 (150)	
Sieve, #200	% passing (um)	3.2 (75)	9.5 (75)	8.8 (75)	3.4 (75)	3.4 (75)	23.1 (75)	3.8 (75)	12.7 (75)	6.5 (75)	1 (75)	4.8 (75)	
Hydrometer Reading 1	% passing (um)	2 (37)	6.9 (36)	7 (36)	-0.5 (38)	2.1 (37)	15.3 (36)	1.7 (37)	9.9 (35)	4.4 (36)	1 (37)	2.4 (37)	
Hydrometer Reading 2	% passing (um)	1.4 (23)	6.9 (23)	6.3 (23)	-0.5 (24)	2.1 (23)	12 (23)	1.7 (23)	9.2 (22)	3.8 (23)	1 (24)	1.6 (24)	
Hydrometer Reading 3	% passing (um)	0.8 (13.6)	5 (13.4)	5 (13.2)	-0.5 (13.7)	1.2 (13.6)	8.8 (13.4)	0.7 (13.6)	7 (13.1)	3.2 (13.4)	0.2 (13.7)	0.9 (13.7)	
Hydrometer Reading 4	% passing (um)	0.8 (9.8)	4.1 (9.6)	3.6 (9.3)	-0.5 (9.5)	1.2 (9.5)	5.5 (9.2)	0.7 (9.6)	5.5 (9.4)	2 (9.5)	0.2 (9.5)	0.9 (9.7)	
Hydrometer Reading 5	% passing (um)	0.8 (6.9)	3.1 (6.6)	3.6 (6.7)	-0.5 (6.9)	1.2 (6.9)	3.8 (6.8)	0.7 (6.6)	4 (6.9)	2 (6.6)	0.2 (7)	0.1 (6.9)	
Hydrometer Reading 6	% passing (um)	0.8 (3.3)	1.4 (3.3)	1.7 (3.4)	-0.5 (3.5)	0.3 (3.2)	2.2 (3.3)	0.2 (3.3)	2.5 (3.3)	0.8 (3.4)	-0.5 (3.5)	0.1 (3.3)	
Hydrometer Reading 7	% passing (um)	0.6 (1.4)	0.9 (1.4)	0.8 (1.4)	-1.5 (1.4)	-0.9 (1.4)	0 (1.4)	-0.5 (1.4)	0.9 (1.4)	0.6 (1.4)	-0.7 (1.4)	0 (1.4)	

See Notes on Page 3.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #38, April 2010

Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in January 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56716 0 - 2 12/02/09 CVT-01-04	K56717 2 - 5 12/02/09 CVT-01-04	K56718 5 - 9 12/02/09 CVT-01-04	K56719 0 - 2 12/02/09 CVT-03-03	K56720 2 - 6 12/02/09 CVT-03-03	K56721 6 - 9 12/02/09 CVT-03-03	K56722 0 - 2 12/02/09 CVT-03-05	K56723 2 - 5 12/02/09 CVT-03-05	K56724 5 - 8 12/02/09 CVT-03-05
PCB Aroclors										
Aroclor-1016	mg/kg	0.39 U	2.0 U	0.12 U	0.25 U	2.0 U	0.13 U	0.066 U	0.070 U	1.8 U
Aroclor-1221	mg/kg	0.39 U	2.0 U	0.12 U	0.25 U	2.0 U	0.13 U	0.066 U	0.070 U	1.8 U
Aroclor-1232	mg/kg	0.39 U	2.0 U	0.12 U	0.25 U	2.0 U	0.13 U	0.066 U	0.070 U	1.8 U
Aroclor-1242	mg/kg	4.8	23	0.56	3.1	14	0.72	0.11	0.39	15
Aroclor-1248	mg/kg	0.39 U	2.0 U	0.38	0.25 U	4.8	0.13	0.073	0.13	1.8 U
Aroclor-1254	mg/kg	0.39 U	2.0 U	0.12 U	0.38	4.2	0.16	0.066 U	0.070 U	1.8 U
Aroclor-1260	mg/kg	0.39 U	2.0 U	0.12 U	0.28	2.0 U	0.13 U	0.066 U	0.070 U	1.8 U
Total PCBs	mg/kg	4.8	23	0.94	3.8	23	1.0	0.18	0.52	15
Miscellaneous										
Percent Solids	%	61.3	52.2	83.3	60.3	69.8	77.8	74.2	68.3	57.5
TOC										
Total Organic Carbon	mg/kg	22,900	42,400	5,420 J	104,000 J	19,700 J	36,900 J	3,810	11,700 J	49,300
Grain Size Analysis										
Gravel	%	0.6	27.7	38.1	6.3	13.6	33.7	0.6	0.9	0.4
Coarse Sand	%	2.8	10.7	15.2	7.9	19	15.9	1.5	2	0.7
Medium Sand	%	44.4	22.4	26.1	45.2	43	21.2	35.9	40.1	25.2
Fine Sand	%	39.2	18.9	16.4	23.7	19.1	25.6	57.9	51.9	43.8
Silt	%	8.1	7.8	3.4	13.3	4.7	2.7	2.9	4	17.7
Clay	%	4.9	12.6	0.8	3.5	0.7	0.9	1.1	1.2	12.2
Grain Size Analysis - % passing (particle size, um)										
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	96.4 (19000)	100 (19000)	96 (19000)	92.1 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	87.4 (9500)	77 (9500)	97.3 (9500)	94.2 (9500)	79.9 (9500)	100 (9500)	99.7 (9500)	100 (9500)
Sieve, #4	% passing (um)	99.4 (4750)	72.3 (4750)	61.9 (4750)	93.7 (4750)	86.4 (4750)	66.3 (4750)	99.4 (4750)	99.1 (4750)	99.6 (4750)
Sieve, #10	% passing (um)	96.6 (2000)	61.6 (2000)	46.7 (2000)	85.7 (2000)	67.4 (2000)	50.4 (2000)	97.8 (2000)	97.2 (2000)	98.9 (2000)
Sieve, #20	% passing (um)	88 (850)	53.4 (850)	33.8 (850)	54.6 (850)	35.4 (850)	37.6 (850)	91.2 (850)	90.6 (850)	94.4 (850)
Sieve, #40	% passing (um)	52.2 (425)	39.2 (425)	20.6 (425)	40.6 (425)	24.4 (425)	29.2 (425)	62 (425)	57.1 (425)	73.6 (425)
Sieve, #60	% passing (um)	24.8 (250)	30.3 (250)	11.4 (250)	31.5 (250)	16 (250)	18.4 (250)	24.5 (250)	19.6 (250)	48 (250)
Sieve, #80	% passing (um)	16.9 (180)	25.2 (180)	6.6 (180)	25.3 (180)	10 (180)	8.9 (180)	9.5 (180)	8.8 (180)	37.2 (180)
Sieve, #100	% passing (um)	16.1 (150)	24.2 (150)	5.8 (150)	24.1 (150)	9 (150)	7.6 (150)	7.6 (150)	7.5 (150)	35.4 (150)
Sieve, #200	% passing (um)	13 (75)	20.4 (75)	4.2 (75)	16.8 (75)	5.3 (75)	3.6 (75)	4 (75)	5.2 (75)	29.8 (75)
Hydrometer Reading 1	% passing (um)	11.9 (36)	17.9 (34)	2 (37)	10.2 (36)	4.3 (36)	3.4 (37)	3.1 (37)	2.8 (37)	24.2 (33)
Hydrometer Reading 2	% passing (um)	10.7 (23)	17.1 (22)	2 (23)	8 (23)	3.1 (23)	2.6 (23)	2.1 (24)	2.3 (23)	21.4 (21)
Hydrometer Reading 3	% passing (um)	8.4 (13.3)	15.3 (12.7)	1.2 (13.6)	5.8 (13.4)	1.9 (13.6)	1.8 (13.6)	2.1 (13.6)	2.3 (13.5)	17.7 (12.6)
Hydrometer Reading 4	% passing (um)	6.1 (9.5)	14.4 (9.2)	1.2 (9.8)	5.8 (9.3)	1.3 (9.5)	0.9 (9.5)	1.1 (9.4)	2.3 (9.5)	15 (9)
Hydrometer Reading 5	% passing (um)	4.9 (6.9)	12.6 (6.6)	0.8 (6.6)	3.5 (6.8)	0.7 (6.9)	0.9 (6.9)	1.1 (6.8)	1.2 (6.6)	12.2 (6.6)
Hydrometer Reading 6	% passing (um)	3.7 (3.3)	9.9 (3.2)	0.4 (3.4)	2.4 (3.4)	0.7 (3.5)	0.1 (3.3)	0.2 (3.3)	0.6 (3.3)	8.5 (3.3)
Hydrometer Reading 7	% passing (um)	3.5 (1.4)	8 (1.4)	0.3 (1.4)	0.9 (1.4)	0.5 (1.4)	-0.1 (1.4)	-0.2 (1.4)	0.5 (1.4)	6.3 (1.4)

See Notes on Page 3.

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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #38, April 2010

Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received by ARCADIS in February 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection
mg/kg - milligram per kilogram.
Samples analyzed by TestAmerica Laboratories, Inc.
Duplicate results in brackets.

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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #38, April 2010

Table E — Validated PCB Results for Sediment Samples Collected in December 2009 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56805 0 - 2 12/14/09 OCA14-1-1 (0+00)	K56806 2 - 6 12/14/09 OCA14-1-1 (0+00)	K56807 6 - 9 12/14/09 OCA14-1-1 (0+00)	K56808 9 - 11 12/14/09 OCA14-1-1 (0+00)	K56809 [K56810] 11 - 22 12/14/09 OCA14-1-1 (0+00)	K56811 0 - 2 12/14/09 OCA14-2-2 (0+10)	K56812 2 - 6 12/14/09 OCA14-2-2 (0+10)	K56813 6 - 12 12/14/09 OCA14-2-2 (0+10)
PCB Aroclors									
Aroclor-1016	mg/kg	0.20 U	0.16 U	0.11 U	0.082 U	0.079 U [0.081 U]	0.26 U	0.15 U	0.18 U
Aroclor-1221	mg/kg	0.20 U	0.16 U	0.11 U	0.082 U	0.079 U [0.081 U]	0.26 U	0.15 U	0.18 U
Aroclor-1232	mg/kg	0.20 U	0.16 U	0.11 U	0.082 U	0.079 U [0.081 U]	0.26 U	0.15 U	0.18 U
Aroclor-1242	mg/kg	0.21	0.16 U	0.11 U	0.082 U	0.079 U [0.081 U]	0.26 U	0.15 U	0.18 U
Aroclor-1248	mg/kg	0.20 U	0.16 U	0.11 U	0.082 U	0.079 U [0.081 U]	0.26 U	0.15 J	1.4
Aroclor-1254	mg/kg	0.47	0.43	0.23	0.082 U	0.079 U [0.081 U]	0.26 U	0.083 J	0.37
Aroclor-1260	mg/kg	0.20 U	0.091 J	0.11 U	0.082 U	0.079 U [0.081 U]	0.26 U	0.15 U	0.13 J
Total PCBs	mg/kg	0.68	0.52 J	0.23	0.082 U	0.079 U [0.081 U]	0.28	0.23 J	1.9 J
Miscellaneous									
Percent Solids	%	24.4	31.6	47.4	61.5	64 [62.2]	18.6	33.1	27
TOC									
Total Organic Carbon	mg/kg	207,000	130,000	55,900	21,100	24,000 J [26,600]	195,000	125,000	133,000
Grain Size Analysis									
Gravel	%	NA	1.7	0.3	0	0 [0.4]	NA	3.1	0
Coarse Sand	%	NA	3.1	1.1	1.7	0.2 [0.2]	NA	0.5	0.9
Medium Sand	%	NA	16.5	5.2	5.4	0.3 [0.4]	NA	4.3	4.2
Fine Sand	%	NA	28.1	42.6	56	78.2 [78.6]	NA	5.8	13.8
Silt	%	NA	32.6	34.4	24.5	15.7 [14]	NA	60.4	54.6
Clay	%	NA	18	16.4	12.5	5.6 [6.4]	NA	26	26.5
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	NA	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	NA	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	NA	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	NA	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	NA	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	NA	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	NA	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	NA	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	NA	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	NA	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	NA	100 (9500)	100 (9500)	100 (9500)	100 (9500) [100 (9500)]	NA	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	NA	98.3 (4750)	99.7 (4750)	100 (4750)	100 (4750) [99.6 (4750)]	NA	96.9 (4750)	100 (4750)
Sieve, #10	% passing (um)	NA	95.2 (2000)	98.6 (2000)	98.3 (2000)	99.8 (2000) [99.4 (2000)]	NA	96.5 (2000)	99.1 (2000)
Sieve, #20	% passing (um)	NA	87.5 (850)	96.5 (850)	94.8 (850)	99.8 (850) [99.3 (850)]	NA	94.5 (850)	97.9 (850)
Sieve, #40	% passing (um)	NA	78.7 (425)	93.4 (425)	92.9 (425)	99.5 (425) [99 (425)]	NA	92.2 (425)	94.9 (425)
Sieve, #60	% passing (um)	NA	75.2 (250)	91 (250)	91.4 (250)	97.5 (250) [96.9 (250)]	NA	90.6 (250)	92.2 (250)
Sieve, #80	% passing (um)	NA	67.5 (180)	80.1 (180)	84.4 (180)	84.3 (180) [83.4 (180)]	NA	89.6 (180)	88.7 (180)
Sieve, #100	% passing (um)	NA	64.5 (150)	74.3 (150)	73.3 (150)	65.8 (150) [65.2 (150)]	NA	89.1 (150)	86.8 (150)
Sieve, #200	% passing (um)	NA	50.6 (75)	50.8 (75)	36.9 (75)	21.3 (75) [20.4 (75)]	NA	86.4 (75)	81.1 (75)
Hydrometer Reading 1	% passing (um)	NA	48.2 (34)	28.2 (34)	24 (35)	10.2 (36) [13.7 (35)]	NA	69.6 (34)	61.8 (33)
Hydrometer Reading 2	% passing (um)	NA	28.1 (23)	26.7 (22)	21.2 (22)	10.2 (23) [10 (23)]	NA	56.4 (22)	44.1 (22)
Hydrometer Reading 3	% passing (um)	NA	25.5 (13.1)	23.7 (12.8)	18.1 (13.1)	8.2 (13.4) [9.1 (13.2)]	NA	43.1 (13)	37.5 (12.8)
Hydrometer Reading 4	% passing (um)	NA	23 (9.3)	19.3 (9)	15.3 (9.4)	6.3 (9.5) [8.2 (9.5)]	NA	36.5 (9.5)	33.1 (9)
Hydrometer Reading 5	% passing (um)	NA	18 (6.5)	16.4 (6.7)	12.5 (6.7)	5.6 (6.8) [6.4 (6.8)]	NA	26 (6.5)	26.5 (6.5)
Hydrometer Reading 6	% passing (um)	NA	8 (3.4)	12 (3.3)	8.2 (3.3)	2.8 (3.3) [3.6 (3.3)]	NA	16.6 (3.3)	15.4 (3.3)
Hydrometer Reading 7	% passing (um)	NA	2.1 (1.4)	7.1 (1.4)	6.6 (1.4)	2.5 (1.4) [2.4 (1.4)]	NA	8.8 (1.4)	8.1 (1.4)

See Notes on Page 5.

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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #38, April 2010

Table E — Validated PCB Results for Sediment Samples Collected in December 2009 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:		K56814 12 - 24	K56815 24 - 26	K56816 0 - 2	K56817 2 - 6	K56818 6 - 12	K56819 12 - 17	K56820 17 - 19	K56821 0 - 2
Sample Depth(in):		12/14/09	12/14/09	12/15/09	12/15/09	12/15/09	12/15/09	12/15/09	12/15/09
Date Collected:		OCA14-2-2 (0+10)	OCA14-2-2 (0+10)	OCA14-7-5 (0+46)	OCA14-7-5 (0+46)	OCA14-7-5 (0+46)	OCA14-7-5 (0+46)	OCA14-7-5 (0+46)	OCA14-6-3 (0+30)
PCB Aroclors									
Aroclor-1016	mg/kg	0.10 U	0.073 U	0.17 U	0.14 UJ	0.12 U	0.097 U	0.073 U	0.14 U
Aroclor-1221	mg/kg	0.10 U	0.073 U	0.17 U	0.14 UJ	0.12 U	0.097 U	0.073 U	0.14 U
Aroclor-1232	mg/kg	0.052 J	0.073 U	0.17 U	0.14 UJ	0.12 U	0.097 U	0.073 U	0.14 U
Aroclor-1242	mg/kg	0.10 U	0.073 U	0.17 U	0.14 UJ	0.12 U	0.097 U	0.073 U	0.14 U
Aroclor-1248	mg/kg	0.10 U	0.073 U	0.23	0.35 J	0.091 J	0.097 U	0.073 U	0.076 J
Aroclor-1254	mg/kg	0.10 U	0.073 U	0.40	0.38 J	0.17	0.097 U	0.073 U	0.13 J
Aroclor-1260	mg/kg	0.10 U	0.073 U	0.17 U	0.14 UJ	0.12 U	0.097 U	0.073 U	0.14 U
Total PCBs	mg/kg	0.052 J	0.073 U	0.63	0.73 J	0.26 J	0.097 U	0.073 U	0.21 J
Miscellaneous									
Percent Solids	%	47.9	68.4	29.8	33.9	43.2	50.5	62.7	33.9
TOC									
Total Organic Carbon	mg/kg	32,100 J	10,600 J	148,000	121,000	89,800	71,300	25,000	74,300
Grain Size Analysis									
Gravel	%	0.1	NA	1.3	0.6	0	0	0	0.4
Coarse Sand	%	0.2	NA	0.4	0.2	0.2	0.1	0.3	0.2
Medium Sand	%	1.9	NA	8.8	8.7	7.1	6.2	1.1	5.3
Fine Sand	%	69.1	NA	13.4	16.8	28.9	37.1	15.9	8.8
Silt	%	20.8	NA	54.5	49.9	47.7	37.3	49.4	61.4
Clay	%	7.9	NA	21.6	23.7	16.1	19.3	33.3	23.9
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	NA	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	NA	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	NA	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	NA	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	NA	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	NA	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	99.9 (4750)	NA	99.7 (4750)	99.4 (4750)	100 (4750)	100 (4750)	100 (4750)	99.6 (4750)
Sieve, #10	% passing (um)	99.7 (2000)	NA	98.3 (2000)	99.2 (2000)	99.8 (2000)	99.9 (2000)	99.7 (2000)	99.4 (2000)
Sieve, #20	% passing (um)	99.1 (850)	NA	96.7 (850)	96.5 (850)	98.4 (850)	97.9 (850)	99.3 (850)	98.4 (850)
Sieve, #40	% passing (um)	97.8 (425)	NA	89.5 (425)	90.5 (425)	92.7 (425)	93.8 (425)	98.7 (425)	94.1 (425)
Sieve, #60	% passing (um)	87.5 (250)	NA	85.7 (250)	86.6 (250)	87.3 (250)	88.5 (250)	97.4 (250)	91 (250)
Sieve, #80	% passing (um)	62.3 (180)	NA	83.4 (180)	83.5 (180)	80.5 (180)	80.1 (180)	96.5 (180)	89.7 (180)
Sieve, #100	% passing (um)	47.2 (150)	NA	82.2 (150)	81.8 (150)	76.8 (150)	74.5 (150)	95.6 (150)	89.1 (150)
Sieve, #200	% passing (um)	28.7 (75)	NA	76.1 (75)	73.6 (75)	63.8 (75)	56.6 (75)	82.7 (75)	85.3 (75)
Hydrometer Reading 1	% passing (um)	17.8 (35)	NA	53.7 (35)	54.8 (34)	37.1 (34)	39.1 (34)	61.9 (32)	58 (35)
Hydrometer Reading 2	% passing (um)	14.8 (22)	NA	47.3 (22)	41.6 (22)	29.7 (22)	32.6 (22)	54.9 (20)	48.8 (22)
Hydrometer Reading 3	% passing (um)	11.8 (13.1)	NA	34.7 (13.2)	35.1 (12.8)	25.3 (12.8)	25.8 (12.9)	44.2 (12.2)	39.7 (13)
Hydrometer Reading 4	% passing (um)	9.9 (9.2)	NA	27.9 (9.3)	28.5 (8.9)	20.5 (9.2)	20.9 (9.3)	38.9 (8.8)	30.5 (9.2)
Hydrometer Reading 5	% passing (um)	7.9 (6.7)	NA	21.6 (6.8)	23.7 (6.6)	16.1 (6.5)	19.3 (6.8)	33.3 (6.2)	23.9 (6.9)
Hydrometer Reading 6	% passing (um)	4.9 (3.4)	NA	12.1 (3.3)	15 (3.2)	10.1 (3.3)	12.8 (3.3)	26.2 (3.2)	14.7 (3.4)
Hydrometer Reading 7	% passing (um)	2.6 (1.4)	NA	8.4 (1.4)	8 (1.4)	5.4 (1.4)	7.6 (1.4)	22.4 (1.4)	8.1 (1.4)

See Notes on Page 5.

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Supplemental Remedial Investigations/Feasibility Studies
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Table E — Validated PCB Results for Sediment Samples Collected in December 2009 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:	K56822	K56823	K56824 [K56825]	K56826	K56827	K56828	K56829	K56830
Sample Depth(in):	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 12	12 - 15	0 - 2
Date Collected:	12/15/09	12/15/09	12/15/09	12/10/09	12/10/09	12/10/09	12/10/09	12/15/09
Location ID:	Units	OCA14-6-3 (0+30)	OCA14-6-3 (0+30)	OCA14-6-3 (0+30)	OCA14-5-4 (0+30)	OCA14-5-4 (0+30)	OCA14-5-4 (0+30)	OCA14-4-3 (0+48)
PCB Aroclors								
Aroclor-1016	mg/kg	0.12 U	0.11 U	0.13 U [0.13 U]	0.15 U	0.10 U	0.19 U	0.15 U
Aroclor-1221	mg/kg	0.12 U	0.11 U	0.13 U [0.13 U]	0.15 U	0.10 U	0.19 U	0.15 U
Aroclor-1232	mg/kg	0.12 U	0.11 U	0.13 U [0.13 U]	0.15 U	0.10 U	0.19 U	0.15 U
Aroclor-1242	mg/kg	0.12 U	0.11 J	0.13 U [0.13 U]	0.15 U	0.11	0.23	0.15 U
Aroclor-1248	mg/kg	0.32	0.37	0.13 U [0.13 U]	0.12 J	0.10 U	0.19 U	0.15 U
Aroclor-1254	mg/kg	0.17	0.11 U	0.13 U [0.13 U]	0.084 J	0.070 J	0.19 U	0.15 U
Aroclor-1260	mg/kg	0.12 U	0.11 U	0.13 U [0.13 U]	0.15 U	0.10 U	0.19 U	0.15 U
Total PCBs	mg/kg	0.49	0.48	0.13 U [0.13 U]	0.20 J	0.18 J	0.23	0.15 U
Miscellaneous								
Percent Solids	%	41	42.4	38.1 [38.4]	32.4	48.7	28.2	32.7
TOC								
Total Organic Carbon	mg/kg	77,800	94,900	117,000 J [115,000]	121,000	54,200	157,000	108,000
Grain Size Analysis								
Gravel	%	0.3	0.6	1.1 [0.5]	0.6	0.1	0.4	1.2
Coarse Sand	%	0.4	0.6	1.6 [1.9]	2	0.1	1.5	3.2
Medium Sand	%	4	6.5	8.8 [6.9]	5.1	1.2	11.6	5.1
Fine Sand	%	10.8	15.8	37.2 [34.9]	10	4.4	12.7	32.9
Silt	%	58.1	55.9	40.4 [46]	61.6	69.2	48.1	40
Clay	%	26.3	20.6	10.9 [9.8]	20.7	25	25.8	17.6
Grain Size Analysis - % passing (particle size, um)								
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	99.7 (4750)	99.4 (4750)	98.9 (4750) [99.5 (4750)]	99.4 (4750)	99.9 (4750)	99.6 (4750)	98.8 (4750)
Sieve, #10	% passing (um)	99.3 (2000)	98.8 (2000)	97.3 (2000) [97.6 (2000)]	97.4 (2000)	99.8 (2000)	98.2 (2000)	95.6 (2000)
Sieve, #20	% passing (um)	98.8 (850)	98.5 (850)	95.7 (850) [96.5 (850)]	96.9 (850)	99.4 (850)	92.5 (850)	92.8 (850)
Sieve, #40	% passing (um)	95.2 (425)	92.3 (425)	88.5 (425) [90.7 (425)]	92.3 (425)	98.6 (425)	86.6 (425)	90.5 (425)
Sieve, #60	% passing (um)	92.7 (250)	88 (250)	77 (250) [80.5 (250)]	88.9 (250)	97.7 (250)	82.7 (250)	85.4 (250)
Sieve, #80	% passing (um)	91.3 (180)	86 (180)	69 (180) [72.9 (180)]	87.1 (180)	96.9 (180)	80 (180)	78.2 (180)
Sieve, #100	% passing (um)	90.8 (150)	85.2 (150)	65.7 (150) [70.3 (150)]	86.5 (150)	96.6 (150)	78.9 (150)	74.5 (150)
Sieve, #200	% passing (um)	84.4 (75)	76.4 (75)	51.3 (75) [55.8 (75)]	82.3 (75)	94.1 (75)	73.9 (75)	57.6 (75)
Hydrometer Reading 1	% passing (um)	61.8 (33)	55.5 (34)	28.9 (36) [33 (36)]	51 (35)	66.9 (32)	56.9 (35)	42.8 (35)
Hydrometer Reading 2	% passing (um)	50.7 (22)	41.5 (22)	19.9 (23) [22.7 (23)]	38.9 (23)	53.4 (21)	45.4 (22)	32.7 (23)
Hydrometer Reading 3	% passing (um)	39.6 (12.8)	29.9 (13.1)	15.4 (13.5) [17.5 (13.5)]	29.8 (13.3)	40 (12.6)	36.8 (13.1)	27.7 (13.2)
Hydrometer Reading 4	% passing (um)	32.9 (9.3)	25.2 (9.2)	13.1 (9.4) [12.4 (9.5)]	23.7 (9.2)	32.3 (9.1)	28.2 (9.4)	22.7 (9.4)
Hydrometer Reading 5	% passing (um)	26.3 (6.4)	20.6 (6.7)	10.9 (6.9) [9.8 (6.9)]	20.7 (6.7)	25 (6.4)	25.8 (6.8)	17.6 (6.5)
Hydrometer Reading 6	% passing (um)	15.5 (3.3)	11.6 (3.4)	6.8 (3.5) [7.7 (3.2)]	12.1 (3.3)	15.4 (3.2)	14.3 (3.3)	13 (3.4)
Hydrometer Reading 7	% passing (um)	11.1 (1.4)	7 (1.4)	2.3 (1.4) [2.6 (1.4)]	6.1 (1.4)	9.6 (1.4)	8.6 (1.4)	5 (1.4)

See Notes on Page 5.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table E — Validated PCB Results for Sediment Samples Collected in December 2009 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:		K56831	K56832	K56833	K56834	K56835	K56836	K56837
Sample Depth(in):		2 - 6	6 - 12	12 - 23	0 - 2	2 - 6	6 - 12	12 - 21
Date Collected:		12/15/09	12/15/09	12/15/09	12/15/09	12/15/09	12/15/09	12/15/09
Location ID:	Units	OCA14-4-3 (0+48)	OCA14-4-3 (0+48)	OCA14-4-3 (0+48)	OCA14-3-2 (0+10)	OCA14-3-2 (0+10)	OCA14-3-2 (0+10)	OCA14-3-2 (0+10)
PCB Aroclors								
Aroclor-1016	mg/kg	0.15 U	0.15 U	0.088 U	0.16 U	0.068 U	0.13 U	0.13 U
Aroclor-1221	mg/kg	0.15 U	0.15 U	0.088 U	0.16 U	0.068 U	0.13 U	0.13 U
Aroclor-1232	mg/kg	0.099 J	0.096 J	0.088 U	0.16 U	0.071	0.13 U	0.13 U
Aroclor-1242	mg/kg	0.15 U	0.15 U	0.088 U	0.16 U	0.068 U	0.080 J	0.13 U
Aroclor-1248	mg/kg	0.15 U	0.15 U	0.088 U	0.16 U	0.068 U	0.13 U	0.13 U
Aroclor-1254	mg/kg	0.15 U	0.15 U	0.088 U	0.16 U	0.068 U	0.13 U	0.13 U
Aroclor-1260	mg/kg	0.15 U	0.15 U	0.088 U	0.16 U	0.068 U	0.13 U	0.13 U
Total PCBs	mg/kg	0.099 J	0.096 J	0.088 U	0.16 U	0.071	0.080 J	0.13 U
Miscellaneous								
Percent Solids	%	30.9	32.1	54.9	30.9	68.8	37.1	37.2
TOC								
Total Organic Carbon	mg/kg	142,000	111,000	54,300	120,000	18,700	102,000	82,900
Grain Size Analysis								
Gravel	%	0.3	3.4	0.5	2	0.6	4	2.1
Coarse Sand	%	0.9	3.3	1.1	2.2	1.4	3	3.1
Medium Sand	%	3.4	4.5	2.9	5	20.8	10.1	3.2
Fine Sand	%	12.1	18.8	64.8	36.8	65.8	38.9	34.8
Silt	%	62.7	52.7	20.4	45.7	9.5	34.2	40.4
Clay	%	20.6	17.3	10.4	8.3	1.9	9.8	16.4
Grain Size Analysis - % passing (particle size, um)								
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	99.2 (9500)	99.3 (9500)
Sieve, #4	% passing (um)	99.7 (4750)	96.6 (4750)	99.5 (4750)	98 (4750)	99.4 (4750)	96 (4750)	97.9 (4750)
Sieve, #10	% passing (um)	98.8 (2000)	93.3 (2000)	98.4 (2000)	95.8 (2000)	98 (2000)	93 (2000)	94.8 (2000)
Sieve, #20	% passing (um)	98.4 (850)	93.2 (850)	97.8 (850)	95 (850)	95.3 (850)	91.6 (850)	94.3 (850)
Sieve, #40	% passing (um)	95.5 (425)	88.8 (425)	95.5 (425)	90.8 (425)	77.2 (425)	82.9 (425)	91.6 (425)
Sieve, #60	% passing (um)	92 (250)	82.7 (250)	80.4 (250)	82 (250)	41 (250)	71.7 (250)	86.5 (250)
Sieve, #80	% passing (um)	90.1 (180)	79.2 (180)	54.8 (180)	76.3 (180)	29.3 (180)	66.2 (180)	76.8 (180)
Sieve, #100	% passing (um)	89.3 (150)	77.9 (150)	43.3 (150)	72.7 (150)	24.3 (150)	61.6 (150)	70.8 (150)
Sieve, #200	% passing (um)	83.3 (75)	70 (75)	30.8 (75)	54 (75)	11.4 (75)	44 (75)	56.7 (75)
Hydrometer Reading 1	% passing (um)	62.3 (35)	56.1 (33)	21.9 (35)	23.1 (36)	4.7 (37)	18.4 (36)	39.4 (34)
Hydrometer Reading 2	% passing (um)	38.2 (23)	40.5 (22)	17.2 (23)	18.8 (23)	4.7 (23)	15.5 (23)	31.1 (22)
Hydrometer Reading 3	% passing (um)	32.2 (13.3)	28.7 (13.1)	14.9 (13.2)	14.4 (13.6)	3.3 (13.6)	14.1 (13.3)	22.8 (13.1)
Hydrometer Reading 4	% passing (um)	26.1 (9.5)	24.8 (9.3)	12.7 (9.5)	10.1 (9.8)	2.6 (9.5)	11.2 (9.3)	19.4 (9.2)
Hydrometer Reading 5	% passing (um)	20.6 (6.8)	17.3 (6.8)	10.4 (6.8)	8.3 (6.7)	1.9 (6.9)	9.8 (6.8)	16.4 (6.7)
Hydrometer Reading 6	% passing (um)	14.6 (3.3)	11.4 (3.3)	5.7 (3.3)	6.1 (3.4)	1.4 (3.4)	7.2 (3.4)	9.7 (3.2)
Hydrometer Reading 7	% passing (um)	11.6 (1.4)	5.5 (1.4)	3.3 (1.4)	1.8 (1.4)	0.5 (1.4)	2.6 (1.4)	6.4 (1.4)

See Notes on Page 5.

**Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table E — Validated PCB Results for Sediment Samples Collected in December 2009 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

mg/kg - milligram per kilogram.

NA - Not analyzed.

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results in brackets.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56838 0 - 2 01/06/10 OCA1-1-5 (0+30)	K56839 2 - 6 01/06/10 OCA1-1-5 (0+30)	K56840 6 - 12 01/06/10 OCA1-1-5 (0+30)	K56841 12 - 19 01/06/10 OCA1-1-5 (0+30)	K56842 0 - 2 01/05/10 OCA1-2-3 (0+44)	K56843 2 - 6 01/05/10 OCA1-2-3 (0+44)	K56844 6 - 9 01/05/10 OCA1-2-3 (0+44)	K56845 0 - 2 01/05/10 OCA1-3-4 (0+62)
PCB Aroclors									
Aroclor-1016	mg/kg	0.065 U	0.13 U	0.059 U	5.9 U	0.13 U	0.12 U	0.12 U	0.11 U
Aroclor-1221	mg/kg	0.065 U	0.13 U	0.059 U	5.9 U	0.13 U	0.12 U	0.12 U	0.11 U
Aroclor-1232	mg/kg	0.065 U	0.13 U	0.059 U	5.9 U	0.13 U	0.12 U	0.12 U	0.11 U
Aroclor-1242	mg/kg	0.12	0.13 U	0.36	67	0.13 U	0.12 U	0.12 U	0.11 U
Aroclor-1248	mg/kg	0.082	0.54	0.059 U	5.9 U	0.13 U	0.12 U	0.12 U	0.26
Aroclor-1254	mg/kg	0.11	0.32	0.12	11	0.13 U	0.12 U	0.12 U	0.088 J
Aroclor-1260	mg/kg	0.065 U	0.10 J	0.059 U	5.9 U	0.13 U	0.12 U	0.12 U	0.11 U
Total PCBs	mg/kg	0.31	0.96 J	0.48	78	0.13 U	0.12 U	0.12 U	0.35 J
Miscellaneous									
Percent Solids	%	81.9	78.5	80.8	45.1	38	40.1	39.7	45.4
TOC									
Total Organic Carbon	mg/kg	7,220	8,920	24,200 J	57,700	66,000	63,700	52,300	72,300
Grain Size Analysis									
Gravel	%	14.2	7.4	6.7	2.5	0	0	0	0
Coarse Sand	%	28.1	20.4	18.6	7.6	0	0	0	0.3
Medium Sand	%	14.7	12.9	10.8	4.3	2.4	1.4	0.6	9.4
Fine Sand	%	35.7	53	60.2	12.1	7.7	3.8	3.9	20.2
Silt	%	5.9	4.6	2.2	42.9	62.3	62	61.5	57.7
Clay	%	1.4	1.7	1.4	30.7	27.6	32.9	33.9	12.4
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	97.5 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	85.8 (4750)	92.6 (4750)	93.3 (4750)	97.5 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)
Sieve, #10	% passing (um)	57.8 (2000)	72.2 (2000)	74.6 (2000)	89.9 (2000)	100 (2000)	100 (2000)	100 (2000)	99.7 (2000)
Sieve, #20	% passing (um)	47.6 (850)	63.7 (850)	66.6 (850)	87.1 (850)	99 (850)	99.8 (850)	100 (850)	98.5 (850)
Sieve, #40	% passing (um)	43.1 (425)	59.4 (425)	63.9 (425)	85.6 (425)	97.6 (425)	98.6 (425)	99.4 (425)	90.3 (425)
Sieve, #60	% passing (um)	30.3 (250)	48.2 (250)	54.3 (250)	82.8 (250)	96.2 (250)	97.7 (250)	98.7 (250)	84.4 (250)
Sieve, #80	% passing (um)	19.9 (180)	32.5 (180)	36.3 (180)	80 (180)	94.7 (180)	97 (180)	98.1 (180)	80.5 (180)
Sieve, #100	% passing (um)	15.7 (150)	23.7 (150)	24.4 (150)	78.9 (150)	94 (150)	96.7 (150)	97.8 (150)	78.9 (150)
Sieve, #200	% passing (um)	7.4 (75)	6.3 (75)	3.6 (75)	73.6 (75)	89.9 (75)	94.8 (75)	95.5 (75)	70.1 (75)
Hydrometer Reading 1	% passing (um)	2.3 (37)	4 (36)	3.5 (36)	54.4 (28)	61.1 (34)	71.4 (28)	73.3 (27)	41.7 (34)
Hydrometer Reading 2	% passing (um)	2.3 (23)	3.5 (23)	3 (23)	49.3 (18)	55.6 (22)	61.4 (19)	63.8 (18)	33.1 (22)
Hydrometer Reading 3	% passing (um)	1.6 (13.6)	2.7 (13.3)	2 (13.4)	43.1 (10.9)	41.8 (12.8)	48.6 (11.6)	52.9 (11.2)	24.8 (13)
Hydrometer Reading 4	% passing (um)	1.6 (9.6)	2.2 (9.6)	1.9 (9.7)	36.8 (7.9)	35.8 (9)	40 (8.3)	43.4 (8)	18.6 (9.3)
Hydrometer Reading 5	% passing (um)	1.4 (6.9)	1.7 (6.9)	1.4 (6.6)	30.7 (5.9)	27.6 (6.6)	32.9 (6.2)	33.9 (6.1)	12.4 (6.5)
Hydrometer Reading 6	% passing (um)	0.7 (3.3)	0.9 (3.3)	0.5 (3.4)	22.5 (3.1)	16.5 (3.4)	17.1 (3.1)	20.4 (3.1)	6.2 (3.3)
Hydrometer Reading 7	% passing (um)	0 (1.4)	0 (1.4)	0.5 (1.4)	14.3 (1.3)	8.3 (1.4)	11.4 (1.4)	10.9 (1.4)	0 (1.4)

See Notes on Page 13.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:		K56846	K56847	K56848	K56849	K56850	K56851	K56852 [K56853]	K56854
Sample Depth(in):		2 - 6	6 - 16	16 - 19	0 - 2	2 - 8	8 - 12	12 - 26	0 - 2
Date Collected:		01/05/10	01/05/10	01/05/10	01/06/10	01/06/10	01/06/10	01/06/10	01/06/10
Location ID:	Units	OCA1-3-4 (0+62)	OCA1-3-4 (0+62)	OCA1-3-4 (0+62)	OCA1-4-4 (0+22)	OCA1-4-4 (0+22)	OCA1-4-4 (0+22)	OCA1-4-4 (0+22)	OCA1-5-3 (0+36)
PCB Aroclors									
Aroclor-1016	mg/kg	0.11 U	0.099 UJ	0.073 U	1.7 U	1.6 U	0.20 U	0.25 UJ [0.24 U]	0.28 U
Aroclor-1221	mg/kg	0.11 U	0.099 UJ	0.073 U	1.7 U	1.6 U	0.20 U	0.25 UJ [0.24 U]	0.28 U
Aroclor-1232	mg/kg	0.11 U	0.099 UJ	0.073 U	1.7 U	1.6 U	0.20 U	0.25 UJ [0.24 U]	0.28 U
Aroclor-1242	mg/kg	0.11 U	0.099 UJ	0.073 U	19	9.5	0.17 J	0.25 UJ [0.24 U]	0.31
Aroclor-1248	mg/kg	0.11 U	0.099 UJ	0.073 U	1.7 U	1.6 U	0.20 U	0.25 UJ [0.24 U]	0.28 U
Aroclor-1254	mg/kg	0.11 U	0.099 UJ	0.073 U	9.9	4.9	0.20 U	0.25 UJ [0.24 U]	0.15 J
Aroclor-1260	mg/kg	0.11 U	0.099 UJ	0.073 U	1.1 J	1.6 U	0.20 U	0.25 UJ [0.24 U]	0.28 U
Total PCBs	mg/kg	0.11 U	0.099 UJ	0.073 U	30 J	14	0.17 J	0.25 UJ [0.24 U]	0.46 J
Miscellaneous									
Percent Solids	%	44.3	48.3	66.8	30.3	33.3	23.9	20.5 [19.6]	17.5
TOC									
Total Organic Carbon	mg/kg	63,200	60,300	23,200 J	124,000	112,000	151,000	213,000 [232,000]	211,000
Grain Size Analysis									
Gravel	%	0	0	0	1.3	1.8	9.3	2.8 [2]	3
Coarse Sand	%	0	0.4	0.5	2	0.8	1.5	2.9 [1.7]	6.6
Medium Sand	%	5	4.9	8.2	4.5	5.2	3.2	20 [13.9]	24.2
Fine Sand	%	18.9	35.2	70.8	20.7	16.4	11.2	40.1 [36.9]	27.6
Silt	%	56.6	46.1	19.1	54.8	54.3	61.7	31.7 [40.6]	42.6
Clay	%	19.5	13.4	1.5	16.7	21.4	13.2	2.5 [4.9]	-3.9
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	93.6 (9500)	100 (9500) [100 (9500)]	99 (9500)
Sieve, #4	% passing (um)	100 (4750)	100 (4750)	100 (4750)	98.7 (4750)	98.2 (4750)	90.7 (4750)	97.2 (4750) [98 (4750)]	97 (4750)
Sieve, #10	% passing (um)	100 (2000)	99.6 (2000)	99.5 (2000)	96.8 (2000)	97.4 (2000)	89.3 (2000)	94.2 (2000) [96.3 (2000)]	90.4 (2000)
Sieve, #20	% passing (um)	99.8 (850)	97.9 (850)	97.8 (850)	96.5 (850)	97 (850)	88.7 (850)	88.9 (850) [92.9 (850)]	78.3 (850)
Sieve, #40	% passing (um)	95 (425)	94.7 (425)	91.4 (425)	92.2 (425)	92.2 (425)	86 (425)	74.2 (425) [82.4 (425)]	66.2 (425)
Sieve, #60	% passing (um)	90.5 (250)	85.1 (250)	63.1 (250)	87.7 (250)	87.3 (250)	82.9 (250)	58 (250) [67.9 (250)]	56.5 (250)
Sieve, #80	% passing (um)	87.1 (180)	76 (180)	37.7 (180)	84.3 (180)	84.3 (180)	80.8 (180)	49.1 (180) [59.7 (180)]	50 (180)
Sieve, #100	% passing (um)	85.1 (150)	72.4 (150)	30.2 (150)	82.6 (150)	83 (150)	79.8 (150)	45.6 (150) [56.5 (150)]	47.6 (150)
Sieve, #200	% passing (um)	76.1 (75)	59.5 (75)	20.6 (75)	71.5 (75)	75.7 (75)	74.9 (75)	34.2 (75) [45.5 (75)]	38.7 (75)
Hydrometer Reading 1	% passing (um)	50.2 (31)	41.6 (32)	10.6 (35)	44 (34)	52.8 (33)	42.3 (34)	29.9 (36) [36.5 (35)]	28.9 (37)
Hydrometer Reading 2	% passing (um)	40.4 (21)	31.8 (21)	7.5 (23)	35.6 (22)	44 (21)	33.1 (22)	14.9 (23) [18.5 (23)]	14.8 (23)
Hydrometer Reading 3	% passing (um)	30.7 (12.4)	23.2 (12.6)	4.5 (13.4)	27.2 (13)	33.5 (12.6)	23.9 (13)	8.9 (13.5) [11.7 (13.4)]	10.2 (13.6)
Hydrometer Reading 4	% passing (um)	25.1 (8.9)	19.6 (9)	3 (9.4)	23 (9.3)	28.2 (9.1)	18.4 (9.5)	6.8 (9.8) [7.2 (9.4)]	0.8 (9.6)
Hydrometer Reading 5	% passing (um)	19.5 (6.6)	13.4 (6.4)	1.5 (7)	16.7 (6.7)	21.4 (6.6)	13.2 (6.8)	2.5 (6.7) [4.9 (6.8)]	-3.9 (7)
Hydrometer Reading 6	% passing (um)	9.8 (3.3)	7.3 (3.3)	0 (3.5)	8.4 (3.3)	12.6 (3.2)	4 (3.3)	-2.1 (3.4) [0.4 (3.4)]	-3.9 (3.5)
Hydrometer Reading 7	% passing (um)	5.6 (1.4)	2.4 (1.4)	-0.9 (1.4)	4.2 (1.4)	5.3 (1.4)	0 (1.4)	-2.1 (1.4) [-2.3 (1.4)]	-4.7 (1.4)

See Notes on Page 13.

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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56855 2 - 6 01/06/10 OCA1-5-3 (0+36)	K56856 6 - 9 01/06/10 OCA1-5-3 (0+36)	K56857 9 - 13 01/06/10 OCA1-5-3 (0+36)	K56858 13 - 24 01/06/10 OCA1-5-3 (0+36)	K56859 0 - 2 01/06/10 OCA1-6-5 (0+44)	K56860 2 - 6 01/06/10 OCA1-6-5 (0+44)	K56861 6 - 12 01/06/10 OCA1-6-5 (0+44)	K56862 12 - 16 01/06/10 OCA1-6-5 (0+44)
PCB Aroclors									
Aroclor-1016	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.32 U	0.30 U	0.42 U	0.25 U
Aroclor-1221	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.32 U	0.30 U	0.42 U	0.25 U
Aroclor-1232	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.32 U	0.30 U	0.42 U	0.25 U
Aroclor-1242	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.32 U	0.30 U	0.42 U	0.25 U
Aroclor-1248	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.32 U	0.30 U	0.42 U	0.25 U
Aroclor-1254	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.16 J	0.30 U	0.42 U	0.25 U
Aroclor-1260	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.32 U	0.30 U	0.42 U	0.25 U
Total PCBs	mg/kg	0.15 U	0.29 U	0.16 U	0.065 U	0.16 J	0.30 U	0.42 U	0.25 U
Miscellaneous									
Percent Solids	%	32.6	16.6	30.8	75.8	14.7	16.8	12.4	18.8
TOC									
Total Organic Carbon	mg/kg	150,000	236,000	112,000 J	1,730 J	443,000	251,000	445,000	269,000
Grain Size Analysis									
Gravel	%	4.3	2.6	0.3	0.7	6.1	6	4.6	1.7
Coarse Sand	%	9.7	5.4	2.3	2.9	9.2	5.8	9.1	8.3
Medium Sand	%	35	15.4	9.2	13.3	14.3	26.1	25.6	17.9
Fine Sand	%	21	60.1	53	75.7	17.1	18.6	17.7	23.7
Silt	%	32.9	18.4	31.5	6.8	53.2	46	40.6	43.2
Clay	%	-2.8	-1.9	3.6	0.5	0	-2.5	2.4	5.2
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	98.9 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	95.7 (4750)	97.4 (4750)	99.7 (4750)	99.3 (4750)	93.9 (4750)	94 (4750)	95.4 (4750)	98.3 (4750)
Sieve, #10	% passing (um)	86 (2000)	92 (2000)	97.4 (2000)	96.4 (2000)	84.6 (2000)	88.2 (2000)	86.3 (2000)	90 (2000)
Sieve, #20	% passing (um)	60.8 (850)	81.3 (850)	92.9 (850)	92.7 (850)	77.7 (850)	73.7 (850)	75.8 (850)	82 (850)
Sieve, #40	% passing (um)	51 (425)	76.6 (425)	88.2 (425)	83.1 (425)	70.3 (425)	62.1 (425)	60.6 (425)	72.2 (425)
Sieve, #60	% passing (um)	43.7 (250)	49.8 (250)	76.2 (250)	55.3 (250)	63.5 (250)	55 (250)	53.2 (250)	64.8 (250)
Sieve, #80	% passing (um)	38.8 (180)	31 (180)	64.1 (180)	29.2 (180)	58.6 (180)	50.9 (180)	49.5 (180)	60.2 (180)
Sieve, #100	% passing (um)	36.8 (150)	25.1 (150)	55 (150)	18.8 (150)	56.2 (150)	49.3 (150)	48 (150)	57.8 (150)
Sieve, #200	% passing (um)	30 (75)	16.5 (75)	35.2 (75)	7.4 (75)	53.2 (75)	43.5 (75)	42.9 (75)	48.4 (75)
Hydrometer Reading 1	% passing (um)	28.5 (36)	9.3 (37)	19.3 (35)	3.9 (36)	39.1 (37)	33.6 (36)	36.3 (36)	42.1 (36)
Hydrometer Reading 2	% passing (um)	8.5 (24)	5.6 (24)	13.3 (23)	2.8 (23)	24 (23)	15.5 (23)	10.8 (24)	19.4 (23)
Hydrometer Reading 3	% passing (um)	2.8 (13.8)	1.9 (13.8)	8.5 (13.4)	1.7 (13.6)	8.8 (13.7)	6.5 (13.6)	2.4 (13.8)	13.7 (13.6)
Hydrometer Reading 4	% passing (um)	0 (9.6)	-1.9 (9.5)	6 (9.6)	1.2 (9.6)	1.3 (9.7)	3.5 (9.5)	2.4 (9.8)	8.1 (9.7)
Hydrometer Reading 5	% passing (um)	-2.8 (7)	-1.9 (6.9)	3.6 (6.7)	0.5 (7.1)	0 (6.7)	-2.5 (7.1)	2.4 (7)	5.2 (7)
Hydrometer Reading 6	% passing (um)	-5.7 (3.3)	-3.7 (3.4)	1.2 (3.4)	0 (3.4)	-7.6 (3.5)	-6 (3.5)	-0.5 (3.4)	2.8 (3.3)
Hydrometer Reading 7	% passing (um)	-5.7 (1.4)	-3.7 (1.4)	0 (1.4)	-0.5 (1.4)	-7.6 (1.4)	-6 (1.5)	-3.3 (1.4)	-0.5 (1.4)

See Notes on Page 13.

Georgia-Pacific LLC
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56863 16 - 22 01/06/10 OCA1-6-5 (0+44)	K56864 [K56866] 22 - 29 01/06/10 OCA1-6-5 (0+44)	K56865 29 - 33 01/06/10 OCA1-6-5 (0+44)	K56867 0 - 2 01/07/10 OCA1-7-3 (0+20)	K56868 2 - 6 01/07/10 OCA1-7-3 (0+20)	K56869 6 - 12 01/07/10 OCA1-7-3 (0+20)	K56870 12 - 18 01/07/10 OCA1-7-3 (0+20)	K56871 0 - 2 01/12/10 OCA5-4-3 (1+00)
PCB Aroclors									
Aroclor-1016	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.23 U	0.14 U	0.16 U	0.15 U	0.066 U
Aroclor-1221	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.23 U	0.14 U	0.16 U	0.15 U	0.066 U
Aroclor-1232	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.23 U	0.14 U	0.16 U	0.15 U	0.066 U
Aroclor-1242	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.23 U	0.14 U	0.16 U	0.15 U	0.27
Aroclor-1248	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.26	0.081 J	0.16 U	0.15 U	0.066 U
Aroclor-1254	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.62	0.16	0.16 U	0.15 U	0.042 J
Aroclor-1260	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.23 U	0.14 U	0.082 J	0.15 U	0.066 U
Total PCBs	mg/kg	0.17 U	0.084 U [0.092 U]	0.068 U	0.88	0.24 J	0.082 J	0.15 U	0.31 J
Miscellaneous									
Percent Solids	%	29	57.5 [52.3]	70.9	21.4	34.6	30.8	30.5	75.4
TOC									
Total Organic Carbon	mg/kg	91,400	29,000 J [24,100]	8,890 J	234,000 J	75,800	119,000	134,000	7,880 J
Grain Size Analysis									
Gravel	%	0.1	0 [0.1]	0.1	30.5	3.6	0.7	1.6	3
Coarse Sand	%	0.8	0.5 [0.8]	0.4	5.4	2.6	1.9	3.1	5.5
Medium Sand	%	4.2	4 [4.5]	6.9	5.2	8.9	6.3	6.6	11.7
Fine Sand	%	39.2	77.1 [76.2]	89.9	32.8	55.6	37.6	37.2	76.1
Silt	%	46.6	12.9 [13.3]	2.3	27	25.4	43.7	40.1	2.8
Clay	%	9.1	5.5 [5.1]	0.5	-0.9	3.9	9.8	11.4	0.9
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	98.6 (9500)	100 (9500)	100 (9500)	99.2 (9500)
Sieve, #4	% passing (um)	99.9 (4750)	100 (4750) [99.9 (4750)]	99.9 (4750)	69.5 (4750)	96.4 (4750)	99.3 (4750)	98.4 (4750)	97 (4750)
Sieve, #10	% passing (um)	99.1 (2000)	99.5 (2000) [99.1 (2000)]	99.5 (2000)	64.1 (2000)	93.8 (2000)	97.4 (2000)	95.3 (2000)	91.5 (2000)
Sieve, #20	% passing (um)	97.8 (850)	98.8 (850) [98.4 (850)]	98.8 (850)	63.1 (850)	92.1 (850)	95.7 (850)	93.4 (850)	86.6 (850)
Sieve, #40	% passing (um)	95 (425)	95.4 (425) [94.6 (425)]	92.7 (425)	58.9 (425)	84.9 (425)	91.1 (425)	88.7 (425)	79.8 (425)
Sieve, #60	% passing (um)	88.9 (250)	76.8 (250) [74.5 (250)]	29.6 (250)	47.3 (250)	63.2 (250)	78.6 (250)	76.7 (250)	59.3 (250)
Sieve, #80	% passing (um)	79.3 (180)	52.8 (180) [50.3 (180)]	9.6 (180)	38.4 (180)	47 (180)	68.1 (180)	66.3 (180)	33.9 (180)
Sieve, #100	% passing (um)	72.5 (150)	38.3 (150) [36.9 (150)]	6.4 (150)	34.9 (150)	40.5 (150)	63.9 (150)	62.1 (150)	20.9 (150)
Sieve, #200	% passing (um)	55.7 (75)	18.3 (75) [18.4 (75)]	2.8 (75)	26.1 (75)	29.3 (75)	53.5 (75)	51.5 (75)	3.7 (75)
Hydrometer Reading 1	% passing (um)	33.2 (34)	14.5 (36) [13.5 (36)]	2.3 (37)	22.2 (37)	20.4 (35)	41.2 (33)	41.4 (34)	2 (38)
Hydrometer Reading 2	% passing (um)	22.5 (22)	12.2 (23) [11.4 (23)]	1.7 (24)	16.6 (24)	15 (23)	26.9 (22)	31.4 (22)	2 (24)
Hydrometer Reading 3	% passing (um)	17.2 (13.1)	8.9 (13.4) [8.2 (13.4)]	1.7 (13.7)	5.5 (13.8)	9.3 (13.5)	18.3 (13.1)	21.4 (13.1)	2 (13.8)
Hydrometer Reading 4	% passing (um)	13.2 (9.6)	6.6 (9.7) [7.2 (9.4)]	1.1 (9.6)	4.6 (9.6)	6.6 (9.3)	14.1 (9.4)	16.4 (9.4)	0.9 (9.8)
Hydrometer Reading 5	% passing (um)	9.1 (6.9)	5.5 (6.6) [5.1 (6.9)]	0.5 (6.9)	-0.9 (7)	3.9 (6.9)	9.8 (6.6)	11.4 (6.9)	0.9 (6.8)
Hydrometer Reading 6	% passing (um)	5.1 (3.3)	4.3 (3.3) [3 (3.5)]	0.5 (3.5)	-6.5 (3.3)	1.4 (3.3)	4.1 (3.3)	4.7 (3.4)	0.9 (3.5)
Hydrometer Reading 7	% passing (um)	2.5 (1.4)	2.1 (1.4) [1.9 (1.4)]	0.5 (1.4)	-6.5 (1.4)	-1.6 (1.4)	1.2 (1.4)	1.4 (1.4)	0.9 (1.4)

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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56872 2 - 7 01/12/10 OCA5-4-3 (1+00)	K56873 7 - 11 01/12/10 OCA5-4-3 (1+00)	K56874 11 - 12 01/12/10 OCA5-4-3 (1+00)	K56875 0 - 2 01/12/10 OCA5-5-3 (0+26)	K56876 2 - 6 01/12/10 OCA5-5-3 (0+26)	K56877 6 - 9 01/12/10 OCA5-5-3 (0+26)	K56878 9 - 12 01/12/10 OCA5-5-3 (0+26)	K56879 0 - 2 01/12/10 OCA5-6-4 (0+35)
PCB Aroclors									
Aroclor-1016	mg/kg	0.058 U	5.8 U	2.1 U	0.33 U	0.56 U	0.62 U	0.059 U	0.13 UJ
Aroclor-1221	mg/kg	0.058 U	5.8 U	2.1 U	0.33 U	0.56 U	0.62 U	0.059 U	0.13 UJ
Aroclor-1232	mg/kg	0.058 U	5.8 U	2.1 U	0.33 U	0.56 U	0.62 U	0.059 U	0.13 UJ
Aroclor-1242	mg/kg	0.61	71	24	1.2	1.5	4.3	0.31	0.13 J
Aroclor-1248	mg/kg	0.058 U	5.8 U	2.1 U	0.27 J	1.2	0.62 U	0.059 U	0.21 J
Aroclor-1254	mg/kg	0.074	19	6.4	0.70	1.2	1.9	0.082	0.13 J
Aroclor-1260	mg/kg	0.058 U	5.8 U	2.1 U	0.33 U	0.56 U	0.62 U	0.059 U	0.13 UJ
Total PCBs	mg/kg	0.68	90	30	2.2 J	3.9	6.2	0.39	0.47 J
Miscellaneous									
Percent Solids	%	83.4	44	64.8	30.4	35.5	39.6	82.1	38.6
TOC									
Total Organic Carbon	mg/kg	10,200	100,000	81,100 J	89,300	89,200	77,700	20,800 J	63,400
Grain Size Analysis									
Gravel	%	25	0	7.8	1.9	0	2.2	60.4	2.8
Coarse Sand	%	18.9	2	23.6	1.7	3.5	0.5	6.3	1.1
Medium Sand	%	16.9	4.4	30.1	5.8	5.5	9.1	14	4.2
Fine Sand	%	36.6	26.2	22.2	35.3	29.7	28.3	12.2	41.6
Silt	%	2.2	50.5	10.1	46.4	48.3	42.1	7.1	36.2
Clay	%	0.3	16.9	6.2	8.9	13	17.8	0	14.1
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	69.9 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	58.1 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	90.4 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	48 (9500)	100 (9500)
Sieve, #4	% passing (um)	75 (4750)	100 (4750)	92.2 (4750)	98.1 (4750)	100 (4750)	97.8 (4750)	39.6 (4750)	97.2 (4750)
Sieve, #10	% passing (um)	56.1 (2000)	98 (2000)	68.6 (2000)	96.4 (2000)	96.5 (2000)	97.3 (2000)	33.4 (2000)	96.1 (2000)
Sieve, #20	% passing (um)	47.2 (850)	96.6 (850)	52.1 (850)	94.8 (850)	94.9 (850)	95 (850)	26.9 (850)	94.8 (850)
Sieve, #40	% passing (um)	39.2 (425)	93.6 (425)	38.5 (425)	90.6 (425)	91.1 (425)	88.2 (425)	19.3 (425)	91.9 (425)
Sieve, #60	% passing (um)	24.4 (250)	88.1 (250)	29.4 (250)	83.6 (250)	84.2 (250)	75.5 (250)	13.2 (250)	86.2 (250)
Sieve, #80	% passing (um)	11.9 (180)	83.2 (180)	24.6 (180)	72.1 (180)	74 (180)	67.5 (180)	10.1 (180)	72 (180)
Sieve, #100	% passing (um)	7.5 (150)	80.8 (150)	22.8 (150)	66.7 (150)	70 (150)	65.2 (150)	8.9 (150)	65 (150)
Sieve, #200	% passing (um)	2.6 (75)	67.4 (75)	16.3 (75)	55.3 (75)	61.3 (75)	59.9 (75)	7.1 (75)	50.3 (75)
Hydrometer Reading 1	% passing (um)	0.7 (38)	53.2 (31)	9.3 (37)	35.6 (35)	43.4 (34)	39.5 (34)	1 (37)	35.1 (34)
Hydrometer Reading 2	% passing (um)	0.7 (24)	45.6 (20)	9.3 (23)	26.7 (23)	34.7 (22)	35.6 (22)	1 (24)	28.1 (22)
Hydrometer Reading 3	% passing (um)	0.7 (13.8)	33.5 (12.3)	9.3 (13.4)	17.8 (13.3)	26 (13)	27.7 (12.9)	1 (13.6)	21.1 (13)
Hydrometer Reading 4	% passing (um)	0.7 (9.6)	21.4 (9.1)	6.2 (9.6)	13.3 (9.6)	17.4 (9.5)	23.7 (9.1)	0.5 (9.5)	17.6 (9.1)
Hydrometer Reading 5	% passing (um)	0.3 (7.1)	16.9 (6.6)	6.2 (6.9)	8.9 (6.9)	13 (6.5)	17.8 (6.6)	0 (6.9)	14.1 (6.7)
Hydrometer Reading 6	% passing (um)	0.3 (3.5)	12.1 (3.2)	3.1 (3.3)	4.4 (3.3)	8.7 (3.3)	11.9 (3.3)	-0.5 (3.5)	7 (3.2)
Hydrometer Reading 7	% passing (um)	-0.1 (1.4)	9.1 (1.4)	3.1 (1.4)	0 (1.4)	4.3 (1.4)	7.9 (1.4)	-1 (1.4)	3.5 (1.4)

See Notes on Page 13.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:	K56880	K56881 [K56884]	K56882	K56883	K56885	K56886	K56887	K56888
Sample Depth(in):	2 - 6	6 - 12	12 - 14	14 - 22	0 - 2	2 - 6	6 - 15	15 - 20
Date Collected:	01/12/10	01/12/10	01/12/10	01/12/10	01/13/10	01/12/10	01/12/10	01/12/10
Location ID:	Units	OCA5-6-4 (0+35)	OCA5-6-4 (0+35)	OCA5-6-4 (0+35)	OCA5-6-4 (0+35)	OCA5-7-4 (0+15)	OCA5-7-4 (0+15)	OCA5-7-4 (0+15)
PCB Aroclors								
Aroclor-1016	mg/kg	0.12 U	0.12 U [0.11 U]	0.074 U	0.093 U	0.46 U	0.15 U	0.14 U
Aroclor-1221	mg/kg	0.12 U	0.12 U [0.11 U]	0.074 U	0.093 U	0.46 U	0.15 U	0.14 U
Aroclor-1232	mg/kg	0.12 U	0.12 U [0.11 U]	0.074 U	0.093 U	0.46 U	0.15 U	0.14 U
Aroclor-1242	mg/kg	0.10 J	0.12 U [0.11 U]	0.074 U	0.093 UJ	1.2	0.35	0.14 U
Aroclor-1248	mg/kg	0.15	0.12 U [0.11 U]	0.074 U	0.093 U	2.2	0.70	0.22
Aroclor-1254	mg/kg	0.074 J	0.12 U [0.11 U]	0.074 U	0.093 UJ	2.0	0.61	0.14 U
Aroclor-1260	mg/kg	0.12 U	0.12 U [0.11 U]	0.074 U	0.093 U	0.24 J	0.28	0.15
Total PCBs	mg/kg	0.32 J	0.12 U [0.11 U]	0.074 U	0.093 U	5.6 J	1.9	0.37
Miscellaneous								
Percent Solids	%	42.4	42.3 [41.6]	67	48.6	33.1	32.1	33.7
TOC								
Total Organic Carbon	mg/kg	61,600	48,500 [71,500 J]	18,500 J	31,500 J	136,000	120,000	95,900
Grain Size Analysis								
Gravel	%	0.4	0.9 [0]	0	0	2.6	0.1	0.1
Coarse Sand	%	0.5	0.6 [0.5]	0.6	0.1	3.1	0.4	0.8
Medium Sand	%	1.9	2.7 [2.1]	2.7	2	2.9	1.4	1.4
Fine Sand	%	33	35.8 [32]	85.9	53.1	48	19.1	23.1
Silt	%	46.9	43.9 [47.4]	8.7	35.4	30.5	59.2	56.8
Clay	%	17.3	16 [17.9]	2.2	9.3	12.9	19.8	17.8
Grain Size Analysis - % passing (particle size, um)								
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	99.5 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	99.6 (4750)	99.1 (4750) [100 (4750)]	100 (4750)	100 (4750)	97.4 (4750)	99.9 (4750)	99.9 (4750)
Sieve, #10	% passing (um)	99.1 (2000)	98.4 (2000) [99.5 (2000)]	99.4 (2000)	99.9 (2000)	94.3 (2000)	99.4 (2000)	99.1 (2000)
Sieve, #20	% passing (um)	98.6 (850)	97.9 (850) [98.9 (850)]	98.2 (850)	99.6 (850)	93.9 (850)	98.9 (850)	98.7 (850)
Sieve, #40	% passing (um)	97.1 (425)	95.7 (425) [97.3 (425)]	96.7 (425)	97.8 (425)	91.4 (425)	98.1 (425)	97.7 (425)
Sieve, #60	% passing (um)	93.7 (250)	92 (250) [94.6 (250)]	85 (250)	92.6 (250)	84.4 (250)	95.8 (250)	95 (250)
Sieve, #80	% passing (um)	84.4 (180)	83 (180) [87.2 (180)]	46.1 (180)	75.3 (180)	73.5 (180)	91.9 (180)	89.2 (180)
Sieve, #100	% passing (um)	79.1 (150)	77.5 (150) [82.3 (150)]	29.5 (150)	65.5 (150)	65.7 (150)	89.4 (150)	85.9 (150)
Sieve, #200	% passing (um)	64.2 (75)	59.9 (75) [65.3 (75)]	10.8 (75)	44.7 (75)	43.4 (75)	78.9 (75)	74.6 (75)
Hydrometer Reading 1	% passing (um)	45.7 (31)	44.8 (33) [41.8 (33)]	4.3 (37)	27.9 (35)	27.5 (35)	49.1 (31)	47.6 (31)
Hydrometer Reading 2	% passing (um)	39.5 (20)	38.4 (21) [38.8 (21)]	4.3 (23)	24.8 (22)	23.3 (23)	37.9 (21)	39.5 (21)
Hydrometer Reading 3	% passing (um)	29.6 (12.2)	28.8 (12.6) [29.9 (12.5)]	3.2 (13.6)	17.1 (13.1)	19.1 (13.2)	32.3 (12.3)	31.3 (12.3)
Hydrometer Reading 4	% passing (um)	22.2 (8.7)	22.4 (9.1) [22.4 (8.9)]	2.2 (9.6)	12.4 (9.4)	15 (9.4)	25.3 (8.9)	24.6 (9.1)
Hydrometer Reading 5	% passing (um)	17.3 (6.4)	16 (6.4) [17.9 (6.7)]	2.2 (7)	9.3 (6.5)	12.9 (6.7)	19.8 (6.6)	17.8 (6.6)
Hydrometer Reading 6	% passing (um)	9.9 (3.2)	9.6 (3.3) [10.5 (3.4)]	1.1 (3.4)	6.2 (3.4)	6.3 (3.3)	12.6 (3.2)	10.8 (3.3)
Hydrometer Reading 7	% passing (um)	4.9 (1.4)	6.4 (1.4) [6 (1.4)]	-0.2 (1.4)	3.1 (1.4)	5.9 (1.4)	6.7 (1.4)	6.5 (1.4)

See Notes on Page 13.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56889 0 - 2 01/13/10 OCA5-1-5 (0+89)	K56890 [K56891] 2 - 7 01/13/10 OCA5-1-5 (0+89)	K56892 0 - 2 01/13/10 OCA5-2-1 (0+00)	K56893 2 - 8 01/13/10 OCA5-2-1 (0+00)	K56894 0 - 2 01/14/10 OCA5-3-1 (0+00)	K56895 2 - 6 01/14/10 OCA5-3-1 (0+00)	K56896 6 - 9 01/14/10 OCA5-3-1 (0+00)	K56897 9 - 18 01/14/10 OCA5-3-1 (0+00)
PCB Aroclors									
Aroclor-1016	mg/kg	0.093 U	0.070 U [0.093 U]	0.12 U	0.097 U	0.066 U	0.064 U	0.081 U	0.073 U
Aroclor-1221	mg/kg	0.093 U	0.070 U [0.093 U]	0.12 U	0.097 U	0.066 U	0.064 U	0.081 U	0.073 U
Aroclor-1232	mg/kg	0.093 U	0.070 U [0.093 U]	0.12 U	0.097 U	0.066 U	0.064 U	0.081 U	0.042 J
Aroclor-1242	mg/kg	0.093 U	0.070 U [0.093 U]	0.12 U	0.097 U	0.066 U	0.064 U	0.081 U	0.073 U
Aroclor-1248	mg/kg	0.59	0.18 [0.17]	0.12	0.21	0.075	0.12	0.081 U	0.073 U
Aroclor-1254	mg/kg	0.75	0.070 U [0.093 U]	0.12 U	0.097 U	0.092	0.064 U	0.081 U	0.073 U
Aroclor-1260	mg/kg	0.15	0.070 U [0.093 U]	0.085 J	0.097 U	0.066 U	0.064 U	0.081 U	0.073 U
Total PCBs	mg/kg	1.5	0.18 [0.17]	0.21 J	0.21	0.17	0.12	0.081 U	0.042 J
Miscellaneous									
Percent Solids	%	54.5	73 [55.4]	41.3	49.5	76.3	72	60.6	66.6
TOC									
Total Organic Carbon	mg/kg	45,600 J	35,800 J [46,400]	82,300	67,100	15,700	15,000	41,500	9,510
Grain Size Analysis									
Gravel	%	1.9	3.9 [8.8]	0	8.8	28.7	15.9	1.4	44.5
Coarse Sand	%	3	0.9 [1.6]	0.1	3.9	7.7	1	1	8.4
Medium Sand	%	12	4.9 [5.6]	4.4	8.1	11.6	6	7.4	14.3
Fine Sand	%	62.5	66.2 [64.9]	30.6	44.4	29.6	36.1	46.1	24.3
Silt	%	15.8	14.1 [12.5]	53.4	28.5	18.5	24.3	31.5	4.3
Clay	%	4.8	10 [6.7]	11.4	6.4	3.9	16.7	12.5	4.1
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	99.8 (9500)	96.4 (9500) [94.8 (9500)]	100 (9500)	92.5 (9500)	88.4 (9500)	87.2 (9500)	100 (9500)	64.8 (9500)
Sieve, #4	% passing (um)	98.1 (4750)	96.1 (4750) [91.2 (4750)]	100 (4750)	91.2 (4750)	71.3 (4750)	84.1 (4750)	98.6 (4750)	55.5 (4750)
Sieve, #10	% passing (um)	95.1 (2000)	95.2 (2000) [89.6 (2000)]	99.9 (2000)	87.3 (2000)	63.6 (2000)	83.1 (2000)	97.6 (2000)	47.1 (2000)
Sieve, #20	% passing (um)	91.4 (850)	93.8 (850) [88 (850)]	99.6 (850)	83.2 (850)	58.3 (850)	81 (850)	95.4 (850)	40.4 (850)
Sieve, #40	% passing (um)	83.1 (425)	90.4 (425) [84.1 (425)]	95.5 (425)	79.2 (425)	52 (425)	77.1 (425)	90.2 (425)	32.8 (425)
Sieve, #60	% passing (um)	66.9 (250)	75.1 (250) [68.1 (250)]	90.7 (250)	73.2 (250)	44.9 (250)	71.1 (250)	75.2 (250)	23.3 (250)
Sieve, #80	% passing (um)	52.8 (180)	56.4 (180) [49.6 (180)]	84.4 (180)	63.9 (180)	37.9 (180)	64.6 (180)	66 (180)	17 (180)
Sieve, #100	% passing (um)	43.8 (150)	46.7 (150) [40 (150)]	81 (150)	56.6 (150)	33.8 (150)	60.5 (150)	61.2 (150)	14.2 (150)
Sieve, #200	% passing (um)	20.6 (75)	24.1 (75) [19.2 (75)]	64.9 (75)	34.9 (75)	22.4 (75)	41 (75)	44 (75)	8.5 (75)
Hydrometer Reading 1	% passing (um)	10.6 (36)	18.4 (35) [13.5 (36)]	30.1 (35)	13.7 (35)	8.6 (36)	31.5 (32)	23.8 (34)	7.4 (35)
Hydrometer Reading 2	% passing (um)	10.6 (23)	17 (23) [12.4 (23)]	25.6 (23)	12.1 (22)	7.8 (23)	26.6 (21)	21.8 (22)	6 (23)
Hydrometer Reading 3	% passing (um)	8.3 (13.3)	12.8 (13.2) [10.2 (13.2)]	21 (13.2)	10.5 (12.9)	7 (13.4)	22.7 (12.3)	17.7 (12.7)	5.1 (13.2)
Hydrometer Reading 4	% passing (um)	6 (9.3)	10 (9.3) [8 (9.3)]	16.4 (9.1)	8.1 (9.3)	5.4 (9.5)	18.8 (8.9)	13.6 (9)	4.1 (9.4)
Hydrometer Reading 5	% passing (um)	4.8 (6.7)	10 (6.7) [6.7 (6.8)]	11.4 (6.8)	6.4 (6.5)	3.9 (6.9)	16.7 (6.2)	12.5 (6.7)	4.1 (6.7)
Hydrometer Reading 6	% passing (um)	3.5 (3.4)	7 (3.4) [5.6 (3.2)]	6.9 (3.3)	3.2 (3.3)	3.2 (3.3)	13.7 (3.2)	9.3 (3.4)	2.3 (3.3)
Hydrometer Reading 7	% passing (um)	1 (1.4)	4 (1.4) [3 (1.4)]	1.9 (1.4)	0.7 (1.4)	2.2 (1.4)	10.6 (1.4)	6 (1.4)	1.4 (1.4)

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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:		K56898 0 - 2 01/14/10 OCA10-1-4 (1+05)	K56899 2 - 8 01/14/10 OCA10-1-4 (1+05)	K56900 8 - 16 01/14/10 OCA10-1-4 (1+05)	K56901 0 - 2 01/14/10 OCA10-2-1 (0+00)	K56902 2 - 6 01/14/10 OCA10-2-1 (0+00)	K56903 6 - 9 01/14/10 OCA10-2-1 (0+00)	K56904 0 - 2 01/19/10 OCA10-3-4 (0+50)	K56905 2 - 6 01/19/10 OCA10-3-4 (0+50)
PCB Aroclors									
Aroclor-1016	mg/kg	0.59 U	0.34 U	0.059 U	0.081 U	0.072 U	0.065 U	0.25 U	0.067 U
Aroclor-1221	mg/kg	0.59 U	0.34 U	0.059 U	0.081 U	0.072 U	0.065 U	0.25 U	0.067 U
Aroclor-1232	mg/kg	0.59 U	0.34 U	0.059 U	0.081 U	0.072 U	0.065 U	0.25 U	0.067 U
Aroclor-1242	mg/kg	0.59 U	0.34 U	0.059 U	0.047 J	0.072 U	0.065 U	0.25 U	0.067 U
Aroclor-1248	mg/kg	4.1	2.6	0.059 U	0.081 U	0.066 J	0.065 U	1.3	0.18
Aroclor-1254	mg/kg	1.3	0.55	0.059 U	0.062 J	0.050 J	0.065 U	0.97	0.17
Aroclor-1260	mg/kg	0.59 U	0.20 J	0.059 U	0.081 U	0.072 U	0.065 U	0.21 J	0.035 J
Total PCBs	mg/kg	5.4	3.4 J	0.059 U	0.11 J	0.12 J	0.065 U	2.5 J	0.39 J
Miscellaneous									
Percent Solids	%	33.7	45.8	84.8	61.7	66.8	78.1	62.8	73.8
TOC									
Total Organic Carbon	mg/kg	167,000 J	58,600	12,700 J	40,000	33,000	11,900	10,700	20,500 J
Grain Size Analysis									
Gravel	%	7.9	0	62.7	19.4	16.7	76.2	5.3	4.5
Coarse Sand	%	3.5	0.6	5.5	9.1	12.5	3.6	3.4	3.5
Medium Sand	%	7.5	4.1	13.1	15.2	19.8	6.4	16	13.3
Fine Sand	%	30.5	30	12.5	35.9	36.4	9.7	66.3	59.7
Silt	%	34.1	49.1	5.5	12	7.8	3	5.9	13.3
Clay	%	16.5	16.2	0.7	8.4	6.8	1.1	3.2	5.6
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	57.3 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	62.9 (19000)	100 (19000)	100 (19000)	33.9 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	43.5 (9500)	95.5 (9500)	94 (9500)	27.6 (9500)	100 (9500)	97.8 (9500)
Sieve, #4	% passing (um)	92.1 (4750)	100 (4750)	37.3 (4750)	80.6 (4750)	83.3 (4750)	23.8 (4750)	94.7 (4750)	95.5 (4750)
Sieve, #10	% passing (um)	88.5 (2000)	99.4 (2000)	31.8 (2000)	71.4 (2000)	70.8 (2000)	20.2 (2000)	91.3 (2000)	91.9 (2000)
Sieve, #20	% passing (um)	84.8 (850)	98.4 (850)	27.3 (850)	65 (850)	62 (850)	17.2 (850)	86.9 (850)	87.7 (850)
Sieve, #40	% passing (um)	81.1 (425)	95.3 (425)	18.7 (425)	56.2 (425)	51 (425)	13.8 (425)	75.3 (425)	78.6 (425)
Sieve, #60	% passing (um)	76.3 (250)	91.3 (250)	8.3 (250)	42.2 (250)	34.8 (250)	9.3 (250)	41.4 (250)	51.3 (250)
Sieve, #80	% passing (um)	70.4 (180)	87.5 (180)	6.8 (180)	33.7 (180)	26.4 (180)	7.1 (180)	23.9 (180)	35 (180)
Sieve, #100	% passing (um)	67 (150)	85 (150)	6.6 (150)	30.2 (150)	22.6 (150)	6.3 (150)	17.8 (150)	28.8 (150)
Sieve, #200	% passing (um)	50.6 (75)	65.3 (75)	6.2 (75)	20.3 (75)	14.6 (75)	4.1 (75)	9 (75)	18.9 (75)
Hydrometer Reading 1	% passing (um)	31 (36)	35.1 (33)	1 (38)	16.7 (37)	14.3 (34)	2.7 (37)	7.6 (37)	10.9 (35)
Hydrometer Reading 2	% passing (um)	26.1 (23)	28.8 (22)	1 (24)	15 (23)	12.4 (22)	2.7 (23)	6.5 (23)	9.6 (22)
Hydrometer Reading 3	% passing (um)	21.3 (13.4)	23.8 (12.7)	1 (13.8)	11.5 (13.6)	9.2 (13.1)	1.9 (13.6)	6.5 (13.5)	8.3 (13.1)
Hydrometer Reading 4	% passing (um)	16.5 (9.5)	18.7 (9.3)	1 (9.9)	10.1 (9.4)	8.1 (9.1)	1.9 (9.5)	5.4 (9.3)	7 (9.4)
Hydrometer Reading 5	% passing (um)	16.5 (6.9)	16.2 (6.7)	0.7 (6.7)	8.4 (6.8)	6.8 (6.7)	1.1 (6.9)	3.2 (6.9)	5.6 (6.6)
Hydrometer Reading 6	% passing (um)	6.8 (3.3)	8.6 (3.3)	0.3 (3.4)	4.9 (3.4)	4.3 (3.4)	1.1 (3.3)	2.2 (3.3)	3.9 (3.3)
Hydrometer Reading 7	% passing (um)	2.4 (1.4)	5 (1.4)	0.4 (1.4)	1.7 (1.4)	2.5 (1.4)	0.8 (1.4)	1.1 (1.4)	1.9 (1.4)

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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56906 6 - 12 01/19/10 OCA10-3-4 (0+50)	K56907 12 - 15 01/19/10 OCA10-3-4 (0+50)	K56908 15 - 18 01/19/10 OCA10-3-4 (0+50)	K56909 18 - 21 01/19/10 OCA10-3-4 (0+50)	K56910 0 - 2 01/19/10 OCA10-C1-1 (0+00)	K56911 2 - 6 01/19/10 OCA10-C1-1 (0+00)	K56912 6 - 12 01/19/10 OCA10-C1-1 (0+00)	K56913 12 - 20 01/19/10 OCA10-C1-1 (0+00)
PCB Aroclors									
Aroclor-1016	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	0.30 U	0.10 U	0.10 U	0.10 U
Aroclor-1221	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	0.30 U	0.10 U	0.10 U	0.10 U
Aroclor-1232	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	0.30 U	0.10 U	0.10 U	0.10 U
Aroclor-1242	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	0.30 U	0.10 U	0.10 U	0.10 U
Aroclor-1248	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	1.5	0.60	0.065 J	0.10 U
Aroclor-1254	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	1.1	0.37	0.10 U	0.10 U
Aroclor-1260	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	0.31	0.18	0.10 U	0.10 U
Total PCBs	mg/kg	0.13 U	0.11 U	0.070 U	0.057 U	2.9	1.2	0.065 J	0.10 U
Miscellaneous									
Percent Solids	%	39.3	47.9	72.2	81.4	53.2	51.7	50.4	52.6
TOC									
Total Organic Carbon	mg/kg	45,700 J	33,500	2,280	1,440	43,900	42,900	54,600	37,600
Grain Size Analysis									
Gravel	%	0	2.4	3.6	6.1	0.4	0	0	0.6
Coarse Sand	%	0.6	1.2	0.4	5.4	1.3	0.3	0.2	0.4
Medium Sand	%	1.2	7.9	6.3	27.9	8.7	9.2	5	1.6
Fine Sand	%	26.7	48.8	81.5	58.8	58.5	54.9	51.3	21.5
Silt	%	43.2	22.6	5.5	1.1	19.6	19.6	28.5	56.5
Clay	%	28.3	17	2.7	0.6	11.4	15.9	15	19.3
Grain Size Analysis - % passing (particle size, um)									
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	97.4 (9500)	98.1 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	100 (4750)	97.6 (4750)	96.4 (4750)	93.9 (4750)	99.6 (4750)	100 (4750)	100 (4750)	99.4 (4750)
Sieve, #10	% passing (um)	99.4 (2000)	96.4 (2000)	96 (2000)	88.5 (2000)	98.2 (2000)	99.6 (2000)	99.8 (2000)	98.9 (2000)
Sieve, #20	% passing (um)	99.2 (850)	94.2 (850)	95.1 (850)	81.4 (850)	96.7 (850)	97.3 (850)	98.3 (850)	98.4 (850)
Sieve, #40	% passing (um)	98.2 (425)	88.5 (425)	89.6 (425)	60.5 (425)	89.5 (425)	90.4 (425)	94.8 (425)	97.3 (425)
Sieve, #60	% passing (um)	93.1 (250)	63.6 (250)	38.1 (250)	12.3 (250)	73.2 (250)	73.8 (250)	82.5 (250)	90.2 (250)
Sieve, #80	% passing (um)	86.4 (180)	51.2 (180)	18.9 (180)	3.4 (180)	58.8 (180)	58.6 (180)	69.1 (180)	85.5 (180)
Sieve, #100	% passing (um)	83 (150)	47.4 (150)	14.3 (150)	2.5 (150)	51.5 (150)	50.8 (150)	62.3 (150)	83.5 (150)
Sieve, #200	% passing (um)	71.6 (75)	39.6 (75)	8.2 (75)	1.7 (75)	31 (75)	35.5 (75)	43.5 (75)	75.8 (75)
Hydrometer Reading 1	% passing (um)	49.4 (29)	33.4 (33)	5.6 (36)	1.2 (37)	22.6 (35)	27 (33)	30.8 (32)	58.7 (27)
Hydrometer Reading 2	% passing (um)	45.2 (19)	31.1 (21)	5 (23)	0.6 (24)	20.1 (22)	25.1 (21)	27.1 (21)	48.1 (19)
Hydrometer Reading 3	% passing (um)	38.9 (11.5)	24 (12.7)	3.8 (13.6)	0.6 (13.7)	16.4 (12.9)	21.4 (12.3)	21.5 (12.3)	35.3 (11.6)
Hydrometer Reading 4	% passing (um)	32.5 (8.4)	19.3 (9.1)	3.2 (9.5)	0.6 (9.7)	13.9 (9.2)	17.7 (9)	17.8 (9)	24.7 (8.6)
Hydrometer Reading 5	% passing (um)	28.3 (6.3)	17 (6.4)	2.7 (7)	0.6 (6.9)	11.4 (6.7)	15.9 (6.5)	15 (6.2)	19.3 (6.3)
Hydrometer Reading 6	% passing (um)	17.9 (3.1)	12.8 (3.3)	1.6 (3.5)	0 (3.3)	8.7 (3.2)	10.2 (3.2)	10.2 (3.2)	13.8 (3.3)
Hydrometer Reading 7	% passing (um)	10.6 (1.4)	7 (1.4)	1 (1.4)	0 (1.4)	5 (1.4)	5.5 (1.4)	5.6 (1.4)	9.6 (1.4)

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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:		K56914 0 - 2 01/19/10 OCA10-B1-5 (0+46)	K56915 2 - 6 01/19/10 OCA10-B1-5 (0+46)	K56916 6 - 12 01/19/10 OCA10-B1-5 (0+46)	K56917 [K56918] 12 - 22 01/19/10 OCA10-B1-5 (0+46)	K56919 0 - 2 01/20/10 OCA10-C3-1 (0+00)	K56920 2 - 6 01/20/10 OCA10-C3-1 (0+00)	K56921 6 - 12 01/20/10 OCA10-C3-1 (0+00)
PCB Aroclors								
Aroclor-1016	mg/kg	0.14 U	1.2 U	0.11 U	0.075 U [0.084 U]	0.22 U	0.41 U	0.11 U
Aroclor-1221	mg/kg	0.14 U	1.2 U	0.11 U	0.075 U [0.084 U]	0.22 U	0.41 U	0.11 U
Aroclor-1232	mg/kg	0.14 U	1.2 U	0.11 U	0.075 U [0.084 U]	0.22 U	0.41 U	0.11 U
Aroclor-1242	mg/kg	0.43	1.2 U	0.17	0.075 U [0.084 U]	0.22 U	0.41 U	0.11 U
Aroclor-1248	mg/kg	0.44	9.0	0.36	0.075 U [0.084 U]	1.5	2.5	0.27
Aroclor-1254	mg/kg	0.39	2.1	0.30	0.075 U [0.084 U]	0.97	1.8	0.12
Aroclor-1260	mg/kg	0.079 J	0.73 J	0.18	0.075 U [0.084 U]	0.26	0.45	0.11 U
Total PCBs	mg/kg	1.3 J	12 J	1.0	0.075 U [0.084 U]	2.7	4.8	0.39
Miscellaneous								
Percent Solids	%	34.5	39.9	44.4	65 [57.5]	45.3	44.3	43.1
TOC								
Total Organic Carbon	mg/kg	141,000 J	78,100	57,700	27,500 J [23,300]	45,700	70,500	59,600
Grain Size Analysis								
Gravel	%	1.9	0.6	0.3	0.1 [0.8]	2.8	0.9	1.1
Coarse Sand	%	3.1	2.6	0.8	0.4 [0.6]	7.1	1.3	0.3
Medium Sand	%	3.7	5.1	3.2	6.9 [6.9]	18.8	8	3
Fine Sand	%	54.3	44	35.8	46.8 [47.4]	46.3	20.2	14
Silt	%	27.6	29.4	42.5	36.9 [36.1]	16.8	46.3	59
Clay	%	9.3	18.4	17.3	8.9 [8.2]	8.3	23.3	22.6
Grain Size Analysis - % passing (particle size, um)								
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	99.8 (9500)	100 (9500) [100 (9500)]	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	98.1 (4750)	99.4 (4750)	99.7 (4750)	99.9 (4750) [99.2 (4750)]	97.2 (4750)	99.1 (4750)	98.9 (4750)
Sieve, #10	% passing (um)	94.9 (2000)	96.8 (2000)	98.9 (2000)	99.5 (2000) [98.6 (2000)]	90.1 (2000)	97.7 (2000)	98.7 (2000)
Sieve, #20	% passing (um)	93.5 (850)	95.2 (850)	98.6 (850)	98.1 (850) [97.6 (850)]	82.9 (850)	96.7 (850)	98.2 (850)
Sieve, #40	% passing (um)	91.2 (425)	91.8 (425)	95.6 (425)	92.6 (425) [91.7 (425)]	71.3 (425)	89.7 (425)	95.6 (425)
Sieve, #60	% passing (um)	86.3 (250)	86.4 (250)	88 (250)	81.5 (250) [79.9 (250)]	51.5 (250)	82.4 (250)	92.4 (250)
Sieve, #80	% passing (um)	77.2 (180)	77.7 (180)	78.5 (180)	69.8 (180) [68 (180)]	40.3 (180)	78.5 (180)	89.9 (180)
Sieve, #100	% passing (um)	69.6 (150)	71.1 (150)	73.4 (150)	63.1 (150) [61.4 (150)]	36.2 (150)	77.1 (150)	88.6 (150)
Sieve, #200	% passing (um)	36.9 (75)	47.8 (75)	59.8 (75)	45.8 (75) [44.3 (75)]	25 (75)	69.6 (75)	81.6 (75)
Hydrometer Reading 1	% passing (um)	26.9 (36)	33.5 (34)	38.9 (32)	29.9 (32) [30.7 (32)]	17.9 (36)	47.9 (32)	44 (31)
Hydrometer Reading 2	% passing (um)	21 (23)	29 (22)	33.2 (21)	25.5 (21) [25.3 (21)]	16.3 (23)	41.7 (21)	39.2 (20)
Hydrometer Reading 3	% passing (um)	15.1 (13.4)	22.9 (12.8)	26.4 (12.3)	16.8 (12.6) [15.4 (12.7)]	11.5 (13.3)	32.5 (12.4)	32.1 (12.1)
Hydrometer Reading 4	% passing (um)	9.3 (9.4)	19.9 (9)	19.6 (8.7)	10.7 (9.2) [10 (9.2)]	9.9 (9.5)	27.9 (8.8)	27.3 (8.8)
Hydrometer Reading 5	% passing (um)	9.3 (6.8)	18.4 (6.6)	17.3 (6.4)	8.9 (6.4) [8.2 (6.8)]	8.3 (6.6)	23.3 (6.6)	22.6 (6.4)
Hydrometer Reading 6	% passing (um)	2.9 (3.5)	10.6 (3.2)	9.1 (3.2)	6.1 (3.3) [5.4 (3.3)]	4.8 (3.4)	15.4 (3.3)	13.1 (3.2)
Hydrometer Reading 7	% passing (um)	2.9 (1.4)	7.6 (1.4)	5.7 (1.4)	4.4 (1.4) [4.5 (1.4)]	1.6 (1.4)	9.2 (1.4)	7.1 (1.4)

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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56922 12 - 14 01/20/10 OCA10-C3-1 (0+00)	K56923 0 - 2 01/20/10 OCA10-C2-5 (0+63)	K56924 2 - 6 01/20/10 OCA10-C2-5 (0+63)	K56925 6 - 10 01/20/10 OCA10-C2-5 (0+63)	K56926 0 - 2 01/20/10 OCA10-C4-4 (0+40)	K56927 2 - 6 01/20/10 OCA10-C4-4 (0+40)	K56928 6 - 9 01/20/10 OCA10-C4-4 (0+40)
PCB Aroclors								
Aroclor-1016	mg/kg	0.081 U	0.11 U	0.065 U	0.056 U	0.15 U	0.098 U	0.10 U
Aroclor-1221	mg/kg	0.081 U	0.11 U	0.065 U	0.056 U	0.15 U	0.098 U	0.10 U
Aroclor-1232	mg/kg	0.081 U	0.11 U	0.065 U	0.056 U	0.15 U	0.098 U	0.10 U
Aroclor-1242	mg/kg	0.081 U	0.11 U	0.065 U	0.056 U	0.27	0.19	0.10 U
Aroclor-1248	mg/kg	0.081 U	0.18	0.065 U	0.056 U	0.15 U	0.098 U	0.10 U
Aroclor-1254	mg/kg	0.081 U	0.11 U	0.065 U	0.056 U	0.29	0.29	0.10 U
Aroclor-1260	mg/kg	0.081 U	0.44	0.080	0.056 U	0.099 J	0.070 J	0.10 U
Total PCBs	mg/kg	0.081 U	0.62	0.080	0.056 U	0.66 J	0.55 J	0.10 U
Miscellaneous								
Percent Solids	%	60.2	42.6	76.1	82.9	33.3	49.7	49.2
TOC								
Total Organic Carbon	mg/kg	47,200	63,500	24,600	3,160 J	81,500	57,400	41,500
Grain Size Analysis								
Gravel	%	26.4	15.5	30.5	61.6	3.4	1.6	0
Coarse Sand	%	20.1	6.7	10.8	8.2	2.3	2.4	0.7
Medium Sand	%	15.4	10.9	13.4	12.5	9.6	8.9	7.9
Fine Sand	%	23.9	43.1	34.1	16	42	46.7	41.9
Silt	%	11.2	21	7.9	1.8	33.5	31.2	33.5
Clay	%	3.1	2.8	3.2	0	9.3	9.1	15.9
Grain Size Analysis - % passing (particle size, um)								
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	62.2 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	52.5 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	81 (9500)	44.8 (9500)	99.5 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	73.6 (4750)	84.5 (4750)	69.5 (4750)	38.4 (4750)	96.6 (4750)	98.4 (4750)	100 (4750)
Sieve, #10	% passing (um)	53.5 (2000)	77.8 (2000)	58.7 (2000)	30.2 (2000)	94.3 (2000)	96 (2000)	99.3 (2000)
Sieve, #20	% passing (um)	44.7 (850)	74 (850)	53.1 (850)	25.3 (850)	91.3 (850)	94.4 (850)	97.3 (850)
Sieve, #40	% passing (um)	38.1 (425)	66.9 (425)	45.3 (425)	17.7 (425)	84.7 (425)	87.1 (425)	91.3 (425)
Sieve, #60	% passing (um)	27.5 (250)	51.6 (250)	29.3 (250)	8.4 (250)	70.9 (250)	70.1 (250)	75 (250)
Sieve, #80	% passing (um)	21.8 (180)	41.4 (180)	21.3 (180)	4.7 (180)	61.2 (180)	58.9 (180)	63.9 (180)
Sieve, #100	% passing (um)	19.8 (150)	36.8 (150)	18 (150)	3.6 (150)	57.1 (150)	53.9 (150)	59.6 (150)
Sieve, #200	% passing (um)	14.3 (75)	23.8 (75)	11.1 (75)	1.8 (75)	42.8 (75)	40.4 (75)	49.4 (75)
Hydrometer Reading 1	% passing (um)	11 (37)	14 (37)	7.1 (36)	1.3 (37)	23.2 (37)	24.8 (35)	30.9 (32)
Hydrometer Reading 2	% passing (um)	7.8 (23)	8.4 (24)	5.8 (23)	1 (24)	23.2 (23)	20.9 (22)	27.9 (21)
Hydrometer Reading 3	% passing (um)	6.3 (13.6)	8.4 (13.6)	4.5 (13.4)	0.3 (13.8)	13.9 (13.6)	17 (13)	22.9 (12.4)
Hydrometer Reading 4	% passing (um)	4.7 (9.6)	2.8 (9.9)	3.9 (9.7)	0.3 (9.6)	9.3 (9.5)	11.7 (9.2)	18.9 (8.7)
Hydrometer Reading 5	% passing (um)	3.1 (7)	2.8 (7)	3.2 (6.6)	0 (6.9)	9.3 (6.9)	9.1 (6.8)	15.9 (6.4)
Hydrometer Reading 6	% passing (um)	1.6 (3.3)	2.8 (3.4)	1.9 (3.3)	0 (3.5)	4.6 (3.5)	6.5 (3.2)	10 (3.2)
Hydrometer Reading 7	% passing (um)	1.3 (1.4)	0 (1.4)	1.3 (1.4)	-0.3 (1.4)	0 (1.4)	3.9 (1.4)	5 (1.4)

See Notes on Page 13.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Sample Name:		K56929	K56930
Sample Depth(in):		9 - 12	12 - 16
Date Collected:		01/20/10	01/20/10
Location ID:	Units	OCA10-C4-4 (0+40)	OCA10-C4-4 (0+40)
PCB Aroclors			
Aroclor-1016	mg/kg	0.073 U	0.063 U
Aroclor-1221	mg/kg	0.073 U	0.063 U
Aroclor-1232	mg/kg	0.073 U	0.063 U
Aroclor-1242	mg/kg	0.073 U	0.063 U
Aroclor-1248	mg/kg	0.073 U	0.063 U
Aroclor-1254	mg/kg	0.073 U	0.063 U
Aroclor-1260	mg/kg	0.073 U	0.063 U
Total PCBs	mg/kg	0.073 U	0.063 U
Miscellaneous			
Percent Solids	%	65.5	74.5
TOC			
Total Organic Carbon	mg/kg	13,900	32,200 J
Grain Size Analysis			
Gravel	%	0	20.8
Coarse Sand	%	0.3	11.8
Medium Sand	%	6.2	20.6
Fine Sand	%	84.1	34
Silt	%	6	10.6
Clay	%	3.4	2.1
Grain Size Analysis - % passing (particle size, um)			
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	94.5 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	88.1 (9500)
Sieve, #4	% passing (um)	100 (4750)	79.2 (4750)
Sieve, #10	% passing (um)	99.7 (2000)	67.4 (2000)
Sieve, #20	% passing (um)	98.6 (850)	59.7 (850)
Sieve, #40	% passing (um)	93.5 (425)	46.7 (425)
Sieve, #60	% passing (um)	61.3 (250)	28.8 (250)
Sieve, #80	% passing (um)	32.1 (180)	20.7 (180)
Sieve, #100	% passing (um)	21.5 (150)	17.6 (150)
Sieve, #200	% passing (um)	9.4 (75)	12.7 (75)
Hydrometer Reading 1	% passing (um)	6.1 (36)	4.7 (36)
Hydrometer Reading 2	% passing (um)	6.1 (23)	4.2 (23)
Hydrometer Reading 3	% passing (um)	4.8 (13.4)	3.2 (13.5)
Hydrometer Reading 4	% passing (um)	4.1 (9.5)	2.6 (9.6)
Hydrometer Reading 5	% passing (um)	3.4 (6.6)	2.1 (7)
Hydrometer Reading 6	% passing (um)	2 (3.3)	1.6 (3.4)
Hydrometer Reading 7	% passing (um)	0.7 (1.4)	0.4 (1.4)

See Notes on Page 13.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table F — Validated PCB Results for Sediment Samples Collected in January 2010 - Off-Channel Areas — Data Received by ARCADIS in February 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection
mg/kg - milligram per kilogram.
Samples analyzed by TestAmerica Laboratories, Inc.
Duplicate results in brackets.

Georgia-Pacific LLC
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Supplemental Remedial Investigations/Feasibility Studies
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Table G — Validated PCB Results for Fish Samples — Data Received in February 2010

Sample Name: Date Collected: Location ID:	Units	K41087 10/12/09 ABSA-08	K41088 10/12/09 ABSA-08	K41089 10/12/09 ABSA-08	K41090 10/12/09 ABSA-08	K41091 10/12/09 ABSA-08	K41092 10/12/09 ABSA-08	K41093 10/12/09 ABSA-08	K41094 10/12/09 ABSA-08	K41095 10/13/09 ABSA-08	K41096 10/13/09 ABSA-08
PCB Aroclors											
Aroclor-1016	mg/kg	0.049 U	0.14 U	0.053 U	0.15 U	0.049 U	0.052 U	0.094 U	0.052 U	0.051 UJ	0.051 U
Aroclor-1221	mg/kg	0.049 U	0.14 U	0.053 U	0.15 U	0.049 U	0.052 U	0.094 U	0.052 U	0.051 UJ	0.051 U
Aroclor-1232	mg/kg	0.049 U	0.14 U	0.053 U	0.15 U	0.049 U	0.052 U	0.094 U	0.052 U	0.051 UJ	0.051 U
Aroclor-1242	mg/kg	0.049 U	0.14 U	0.053 U	0.15 U	0.049 U	0.25	0.094 U	0.052 U	0.051 UJ	0.051 U
Aroclor-1248	mg/kg	0.47	1.1	0.81	1.2	0.31	0.052 U	0.74	0.052 U	0.35 J	0.24
Aroclor-1254	mg/kg	0.34	0.67	0.31	0.82	0.29	0.33	0.56	0.39	0.42 J	0.29
Aroclor-1260	mg/kg	0.10	0.15	0.17	0.37	0.11	0.084	0.18	0.13	0.10 J	0.068
Total PCBs	mg/kg	0.91	1.9	1.3	2.4	0.71	0.66	1.5	0.52	0.87 J	0.60
Miscellaneous											
Percent Lipids	%	1.4	4.1	1.8	2.4	1.6	4.3	1.5	0.6	1.2	0.6

Sample Name: Date Collected: Location ID:	Units	K41097 10/12/09 ABSA-08	K41099 10/12/09 ABSA-08	K41100 10/12/09 ABSA-08	K41101 10/12/09 ABSA-08	K41102 10/12/09 ABSA-08	K41104 10/13/09 ABSA-08	K41105 10/13/09 ABSA-08	K41106 10/13/09 ABSA-08	K41109 10/13/09 ABSA-08	K41110 10/13/09 ABSA-08
PCB Aroclors											
Aroclor-1016	mg/kg	0.049 U	0.10 U	0.050 U	0.051 U	0.051 U	0.049 U	0.050 U	0.050 U	0.053 U	0.049 U
Aroclor-1221	mg/kg	0.049 U	0.10 U	0.050 U	0.051 U	0.051 U	0.049 U	0.050 U	0.050 U	0.053 U	0.049 U
Aroclor-1232	mg/kg	0.049 U	0.10 U	0.050 U	0.051 U	0.051 U	0.049 U	0.050 U	0.050 U	0.053 U	0.049 U
Aroclor-1242	mg/kg	0.049 U	0.10 U	0.050 U	0.051 U	0.051 U	0.065	0.050 U	0.050 U	0.053 U	0.049 U
Aroclor-1248	mg/kg	0.049 U	0.42	0.26	0.11	0.24	0.049 U	0.23	0.16	0.053 U	0.049 U
Aroclor-1254	mg/kg	0.41	0.65	0.34	0.13	0.36	0.24	0.44	0.26	0.37	0.43
Aroclor-1260	mg/kg	0.059	0.10 U	0.053	0.026 J	0.051 U	0.040 J	0.050 U	0.050 U	0.071	0.17
Total PCBs	mg/kg	0.47	1.1	0.65	0.27 J	0.60	0.35 J	0.67	0.42	0.44	0.60
Miscellaneous											
Percent Lipids	%	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.6

Notes:

B - The reported value was obtained from a reading less than the contact required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

mg/kg - milligrams per kilogram.

Samples analyzed by TestAmerica Laboratories, Inc.